



**KAUNO TECHNOLOGIJOS UNIVERSITETAS
ELEKTROS IR ELEKTRONIKOS FAKULTETAS**

Artūras Kulbeckas

**DIDELIŲ DUOMENŲ KIEKIŲ ENERGETINĖJE SISTEMOJE
APDOROJIMAS**

Baigiamasis magistro projektas

Vadovas

Doc. dr. Almantas Bandza

KAUNAS, 2017

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Didelių duomenų kiekių energetinėje sistemoje apdorojimas

AKADEMINIO SAŽINGUMO DEKLARACIJA

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SANTRAUKA

Šiuo metu į naudojamą SCADA valdymo ir stebėjimo sistemą, iš įvairių elektros sistemos tinklo įrenginių ir objektų, yra perduodama ir surenkama tik pati svarbiausia bei reikalingiausia informacija, siekiant neapkrauti pačios sistemos ir su ja dirbančių specialistų. Tačiau tokiu būdu prarandama labai didelė dalis duomenų, kuriuos tinkamai apdorojus būtų užtikrintas stabilesnis ir patikimesnis elektros tinklo veikimas.

Šiame darbe pateikti, galimai įdiegtos ir lygiagrečiai veikiančios su SCADA sistema, debesų kompiuterijos privalumai ir trūkumai. Ši technologija suteiktų galimybę surinkti bei perduoti visus įmanomus duomenis, juos kaupti, tinkamai apdoroti, sudaryti norimus statistinius duomenis, atlikti rezervinį įrenginių valdymą, detaliau stebėti tinklą ir prisijungti prie sistemos per tam skirtas programines įrangas, kurios turi prieigą prie interneto.

Didelių duomenų kiekiams apdoroti ir vizualizuoti buvo parašyti du skirtingi vizualizavimo kodai *MatLab* programinio paketo pagalba, iš matavimų metu gautų trijų savų reikmių transformatorių duomenų. Pirmasis vizualizavimo kodas parašytas *Sammon* algoritmo principu, kuris netiesinių objektų parametrus atvaizduoja taškais dvimatėje plokštumoje. Gauti rezultatai leidžia spręsti apie įrenginio darbo režimus ir artėjančius gedimus. Siekiant pereiti prie vieno parametro vizualizavimo, parašytas antrasis kodas normaliojo (Gauso) skirstinio principu, kuris iš duomenų sudaro tikimybinę pasiskirstymo kreivę bei apskaičiuoja aritmetinį vidurkį ir standartinį nuokrypį. Gauti rezultatai leidžia nustatyti nagrinėjamo parametro diapazonų vertes, kuriose įrenginys dirba normaliu darbo režimu.

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SUMMARY

In to currently used control and monitoring system SCADA, only the most important and most necessary information, coming from a variety of power system network devices and objects, is gathering and collecting for the purpose not to overload the system itself and professionals who are working with it. However in this way a lot of data is lost, which with properly processing could ensure more stable and reliable operation of the network.

In this paper presented, possibly installed, and operating in parallel with SCADA system, the Cloud Computing advantages and disadvantages. This technology would enable to collect and transfer all available data, store it, make proper processes, create desired statistics, perform backup devices commands, make more detailed network monitoring and connect to the system via dedicated software, which have access to the internet.

To process and visualize a large amount of data, with help of MatLab program package, two different visualization codes were written from the measurements of three obsolete transformers. The first visualization code were written using Sammon mapping principle, which nonlinear object parameters reflect as points in a two-dimensional plane. Received results allow us to indicate operating modes and upcoming faults of a device. In order to move to single parameter visualization were written the second code using normal (Gaussian) distribution principle, which from data makes probability distribution curve, calculate arithmetic mean and standard deviation. Given results determine analyzed parameter ranges of the all values in which the device works in a normal operation mode.

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IVADAS

Šiuo metu elektros energetikos sistemoje duomenims surinkti, bei perduoti iš įvairių įrenginių ar tam tikrų objektų yra naudojama SCADA valdymo ir stebėjimo sistema. Tačiau siekiant neapkrauti pačios sistemos bei joje dirbančių asmenų, kad būtų priimti kuo tikslesni bei greitesni sprendimai, yra surenkami ir perduodami tik patys svarbiausi bei reikalingiausi duomenys. Taip yra prarandami ir neišnaudojami visi įmanomi jų resursai, taip pat stabdomas tolimesnis elektros energetikos stebėsenos ir valdymo sistemos modernizacijos procesas, užtikrinantis saugesnį, detalesnį, patikimesnį bei labiau automatizuotą tinklą.

Šio baigiamąjo magistrinio projekto pagrindinis tikslas yra išanalizuoti duomenų surinkimo, perdavimo ir kaupimo technologijos (Debesų kompiuterijos) pritaikymą elektros energetikos sistemoje. Taip pat parinkti didelių duomenų kiekių apdorojimo metodą, leidžiantį vizualiai greitai ir objektyviai nustatyti įrenginių darbo režimus bei leistinausias parametrų vertes. Šiems tikslams pasiekti iškelti uždaviniai:

- Apžvelgti temos svarbumą ir aktualumą esamoje Lietuvos elektros energetikos sistemoje;
- Preliminariai įvertinti galimą duomenų kiekį iš esamų energetinių objektų ir jų vizualizavimo svarbumą;
- Atlikti detalią debesų kompiuterijos technologijos analizę, nustatyti jos privalumus ir trūkumus, galimus išdėstymo modelius bei paslaugų formas;
- Įvertinti galimus pagrindinius duomenų saugumo pažeidimus ir egzistuojančias apsaugos priemones;
- Išanalizuoti ir pritaikyti vizualizavimo metodą *Sammon* algoritmu dideliems duomenų kiekiams;
- *MatLab* programos paketu vizualizuoti tiriamų įrenginių nuskaitytus duomenis ir nustatyti darbo režimus;
- Išanalizuoti ir pritaikyti normalųjį (Gauso) skirstinį pasirinkto parametro reikšmei;
- *MatLab* programos paketu nubrėžti normalųjį (Gauso) skirstinį, nustatyti aritmetinį vidurkį, standartinį nuokrypį bei leistinausias parametro vertes, kuriose įrenginys dirba normaliu darbo režimu.

1. DIDELI DUOMENŲ KIEKIAI IR JŲ PANAUDOJIMAS

1.1 Didelių duomenų kiekių samprata

Duomenys yra suprantami kaip objektyviai egzistuojantys faktai, skaičiai, garsai ar vaizdai, kurie gali būti panaudoti tam tikram uždaviniui išspręsti ar analizei atlikti. Šie duomenys gali virsti informacija, kai jiems suteikiamas tam tikras kontekstas ir jie yra susiejami su tam tikru sprendiniu. Gautas sprendinys – tai žmogaus proto abstrakcija apie duomenis, jų prasmę, naudą ir tarpusavio sąryšius.

Šiuolaikiniame, greitai tobulėjančiame ir besiplečiančiame technologijų pasaulyje, galime gauti ir saugoti didelius duomenų kiekius bei jų srautus. Dideli duomenys tiesiogiai yra susiejami su duomenų kūrimu, nuskaitymu, saugojimu bei analizavimu, kai jų kiekis, dažnumas ir įvairovė yra išskirtinai dideli. Vis dėlto išlieka esminė ir pati svarbiausia problema – kaip visus gautus duomenis suvokti ir išanalizuoti bei priimti geriausią sprendimą, atsižvelgiant į esamą situaciją. Paprastai yra svarbu gauti kuo daugiau duomenų ir juos suprasti, atskiriant svarbią informaciją nuo visai nereikšmingos. Tačiau šis uždavinys gerokai pasunkėja, kai šie duomenys yra daugiamačiai, nurodantys sudėtingų objektų ar reiškinių požymius, kuriuos apibūdina didelis parametų kiekis.

Siekiant palengvinti žmonių darbą, didžiausias galimas duomenų kiekis yra tiesiog nepanaudojamas arba prarandamas dėl pastaruoju metu naudojamų tradicinių technologijų bei fiksuotos informacinių technologijų įrangos apribojimų. Labai dažnai veikiančioms sistemoms paliekamos tik pačios svarbiausios funkcijos, kruopščiai išrenkant mažiausią galimą duomenų kiekį, užtikrinantį optimaliai saugų ir patikimą darbą. Tačiau tai stabdo pačios sistemos našumą ir plėtimosi galimybes.

1.2 Vizualizavimo tikslas

Kuo sistemoje esantys duomenys yra didesnės apimties, tuo sunkiau iš jų visumos suvokti objektų ar reiškinių esamas būsenas, charakteristikas bei tam tikrus požymius. Tačiau labai svarbu žmogui pateikti duomenis kuo suprantamesne ir paprastesne forma, padedančia juos geriau ir lengviau suvokti. Kadangi tyrėjui tenka sudėtingas uždavinys, siekiant įsigilinti į duomenis ir padaryti atitinkamas išvadas, yra sukurti įvairūs analizės metodai, o vienas iš jų būtų vizualizavimas.

Vizualizavimas – tai grafinis informacijos pateikimas, kurio pagrindinis tikslas yra duomenis pateikti tokia forma, kuri leistų žmogui juos suprasti, daryti tinkamas išvadas ir tiesioginę įtaką tolesniems jų srautams. Tai leidžia geriau ir greičiau suvokti sudėtingus

duomenis, nustatyti jų struktūrą, tarpusavio ryšius, susidariusias grupes, sudaryti prognozes bei statistinius grafikus ar nubraižyti norimas histogramas. Naudojant tiesioginio vizualizavimo metodą, kuris neturi apibrėžto formalaus matematinio vizualizavimo kokybės kriterijaus, kiekvienas daugiamačio objekto parametras yra pateikiamas žmogui tam tikra vizualia forma. O esant reikalui, kai įrenginį apibūdina daugiau nei vienas parametras, galima duomenis vizualizuoti panaudojant *Sammon* algoritimą, kuris bus išsamiau apžvelgtas trečiame skyriuje (3. Vizualizavimas *Sammon* algoritmu).

1.3 Lietuvos energetinės sistemos plėtimasis

Lietuvos energetinę elektros sistemą sudaro milžiniškas elektros linijų, generatorių, elektrinių, transformatorių pastočių, skirstomųjų punktų, vartotojų ir kitų įrenginių tinklas, kuris yra nuolatos stebimas, vykdomas duomenų surinkimas, analizavimas bei atliekami valdymo procesai. Vien AB „ESO“ bendrovės ūkyje yra iš viso apie 930 vienetų 110/35 kV transformatorių pastočių ir skirstomųjų punktų, iš kurių nuolatos yra siunčiami dideli kiekiai skirtingų duomenų į dispečerinį valdymo pultą. Tradicinės duomenų bazės buvo sukurtos spręsti mažesnių kiekių tam tikros struktūrizuotos informacijos apdorojimą, kuri tam tikrame laiko intervale mažai keičiasi, yra nuspėjama arba turi stabilią duomenų struktūrą. Tam buvo palikta tik pati svarbiausia ir reikalingiausia informacija, užtikrinanti operatyvią tinklo veiklą bei kokybišką elektros tiekimą vartotojams.

Tačiau toks sprendimas maksimaliai neišnaudoja visos galimos informacijos, kurią įmanoma gauti iš įvairiausių elektros energetikos sistemos objektų. Tinkamai panaudojus šį duomenų kiekį atsirastų galimybė žymiai efektyviau, tiksliau ir išsamiau nuolatos stebėti bei valdyti elektros energetikos sistemos tinklą su absoliučiai visais joje esančiais įrenginiais. Sujungus visą energetinę sistemą ir surinkus visus galimus signalus iš pastočių, įrenginių bei kitų energetinės sistemos objektų, šių siunčiamų duomenų kiekis itin padidėtų, o valdymo pultas taptų perkrautu. Todėl žmogus, dirbantis dispečerinėje, nesugebėtų apdoroti visos gaunamos informacijos ir laiku priimti tinkamų išvadų, o tai sąlygotų pavojingas situacijas visame elektros tinkle su elektros energijos tiekimo nutraukimu vartotojams bei brangių įrenginių gedimais.

Norint išspręsti šią techninę kliūtį, šiame baigiamajame magistro projekte panaudojamas galimas technologinis sprendimas – debesų kompiuterijos technologijų įdiegimas. Ši technologija lygiagrečiai dirbtų su SCADA sistema ir joje veiktų naujos kartos nereliacinės NoSQL duomenų bazių valdymo sistemos. Debesų kompiuterija parenkama dėl didelio sistemos lankstumo, aukšto duomenų apsaugos lygio, neribotų resursų, patikimumo, prieinamumo visoje Lietuvoje iš įrenginių, turinčių prieigą prie interneto bei kitų jos privalumų, kurie plačiai aprašyti

antrame skyriuje (2. Debesų kompiuterija). Taip pat pritaikius didelių duomenų kiekių vizualizavimo metodą iš surinktų duomenų ir atlikus statistinį duomenų analizavimą, būtų galima sumažinti elektros įrenginių eksploatacijos išlaidas, patikrų ir profilaktinių bandymų skaičių bei nustatyti iš anksto palaipsniui artėjančius įrenginių gedimus ar parametrų nuokrypius nuo normų. O tuo tarpu dispečerių valdymo ir stebėjimo pulte dirbantiems ar kitiems autorizuotiems asmenims būtų galimybė prisijungti prie pageidautinos transformatorių pastotės ar kito energetinės sistemos objekto iš norimos vietos su įrenginiu, kuriame yra interneto prieiga. Kas leistų greitai ir efektyviai nustatyti bei pašalinti gedimus, stebėti tinkle vykstančius procesus ir vizualiai analizuoti įrenginių darbą. Taip pat esant reikalui ši sistema galėtų užtikrinti rezervinį įrenginių valdymą, kai dėl gedimų ar kitų techninių nesklandumų dingsta valdymas iš SCADA sistemos.

2. DEBESŲ KOMPIUTERIJA IR NoSQL DUOMENŲ BAZĖ

2.1 Kas yra Debesų kompiuterija

Debesų kompiuterija (ang. *Cloud computing*) turi labai platų apibrėžimą ir dėl šios priežasties buvo galutinai apibrėžta JAV standartų agentūros NIST (ang. *The National Institute of Standards and Technology*), kuri paskelbė 16-tą ir galutinį šios sąvokos apibūdinimą, skambantį taip:

Debesų kompiuterija – tai modelis, leidžiantis visur patogiai pagal poreikį (angl. *on-demand*) per tinklo prieigą naudotis bendrais konfigūruojamais kompiuteriniais ištekliais (programinės įrangos paslaugomis, serveriais, kompiuteriniais tinklais, taikomosiomis programomis ir duomenų laikmenomis) bei šiuos išteklius valdyti su greitu duomenų perdavimu ir minimaliu paslaugų tiekėjo įsikišimu.

NIST apibrėžimas apibūdina 5 pagrindinius esminius debesų kompiuterijos charakteristikas:

- *On-demand self-service* – pagal poreikį, be žmogiškojo faktoriaus įsikišimo, savarankiškai vykdomos paslaugos;
- *Broad network access* – plati tinklo prieiga (per nešiojamus kompiuterius, mobiliuosius telefonus, planšetes ir įvairias darbo vietas, kurios turi interneto prieigą);
- *Resource pooling* – išteklių telkimas. Visų sistemoje esančių tiekėjų kompiuterijos resursai yra sutelkiami siekiant aptarnauti didelį vartotojų skaičių ir jų sparčiai kintančius poreikius;
- *Rapid elasticity and expansion* – didelis lankstumas ir plėtra, užtikrinantis vartotojams neribotą resursų kiekį, reikiamu laiko momentu;
- *Measured service* – paprastai matuojamos paslaugos, leidžiančios stebėti ir kontroliuoti sunaudotų paslaugų kiekį.

Sistemoje esantys duomenų centrai yra užpildomi dedikuota serverine įranga, kur užtikrinamas pastovus internetinis ryšys, elektros energijos tiekimas bei programinės įrangos stabilus veikimas. Vartotojai išsinuomoja šių išteklių dalį pagal savo poreikį atsiskaitydami panašiai kaip už elektros energiją mėnesio pabaigoje pagal skaitliuko rodmenis.

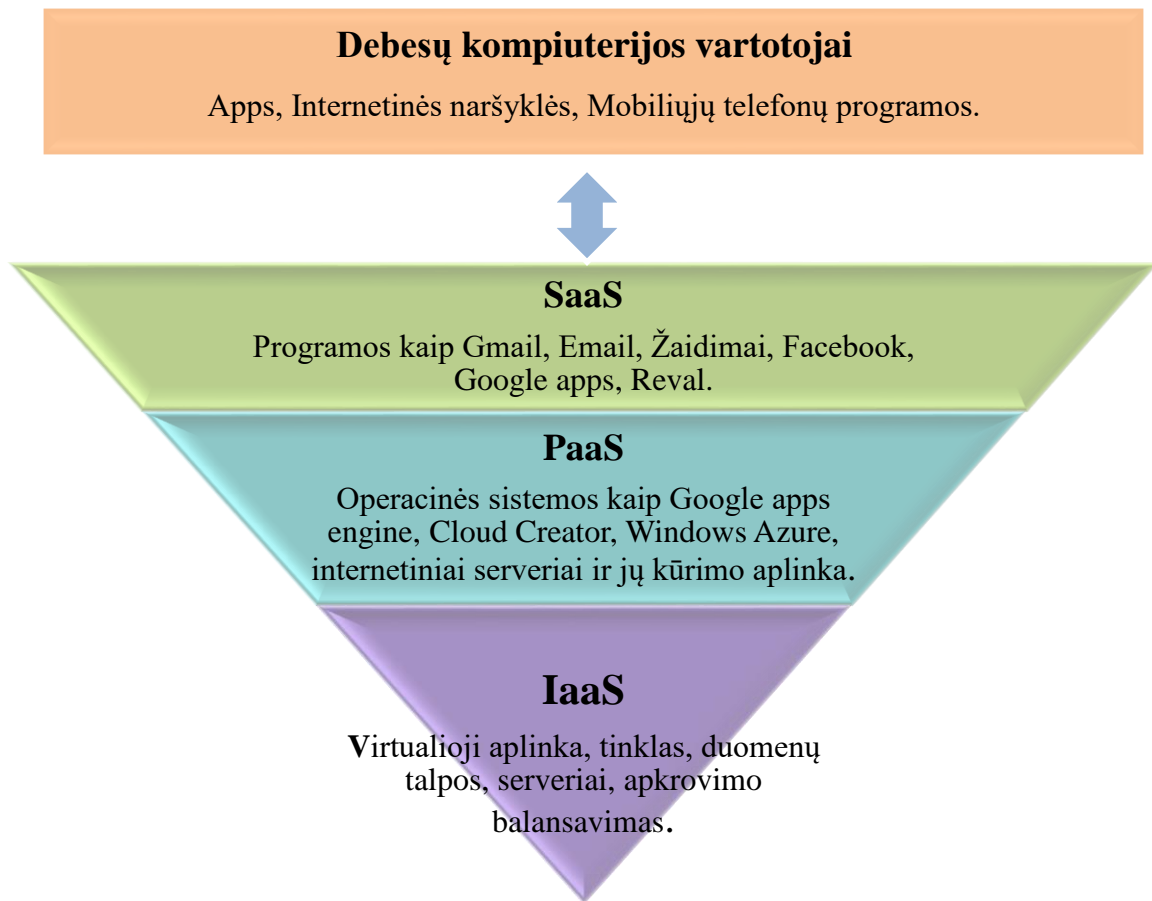
2.2 Debesų kompiuterijos modelio struktūra

NIST šioje vietoje išskiria tris debesų kompiuterijos paslaugų formas – infrastruktūrą (*IaaS*), platformą (*PaaS*) ir programinę įrangą (*SaaS*) bei keturis išsidėstymo modelius – privatus, bendruomenės, viešasis ir hibridinis.

IaaS (Infrastructure as a Service) – Paslaugų kompiuteriniai ištekliai, kurie leidžia vartotojams naudotis sistemoje esančių serverių, duomenų centrų saugyklų resursais bei įvairia tinklo įranga pagal savo poreikį. Čia paslaugų tiekėjas turi užtikrinti fizinės kompiuterinės infrastruktūros veikimą, o tuo tarpu vartotojas naudojasi jam suteiktais ar įsigytais ištekliais. Operacinės sistemos, duomenų talpos ir programų valdymas paliekamas vartotojo atsakomybėje, tuo pačiu užtikrinant ribotą priėjimą prie tam tikrų tinklo įrenginių. Tai sudėtingiausia debesų kompiuterijos paslauga.

PaaS (Platform as a Service) – Paslaugų programuotojų lygmuo, kuris vartotojui suteikia ne tik infrastruktūrinius išteklius, bet ir operacines sistemas kartu su įvairiomis programomis, programavimo kalbomis, bibliotekomis ir kitais įrankiais bei galimomis paslaugomis. Dažniausiai šie vartotojai moka už sistemų naudojimo laiką ir reikalingą resursų kiekį. Šiame lygmenyje dirba programuotojai ir programinės įrangos kūrėjai. Tai bene labiausiai auganti paslaugų sritis dėl internetinių ir mobiliųjų aplikacijų spartaus populiarėjimo.

SaaS (Software as a Service) – Paslaugų programinės įrangos, kurias vartotojai interneto pagalba gali naudoti įvairiausiai savo pageidautiniais tikslais. Čia vartotojui nereikia jokių papildomų investicijų, kurias reikia įdiegti ir valdyti, taip pat negali konfigūruoti operacinių sistemų, duomenų talpos ar paprasčiausių programų dėl apribotų teisių. Tai labiausiai išplėtotą debesų kompiuterijos paslauga, užimanti didžiausią rinkos dalį.



2.2.1 Pav. Debesų kompiuterijos paslaugų modelio struktūra

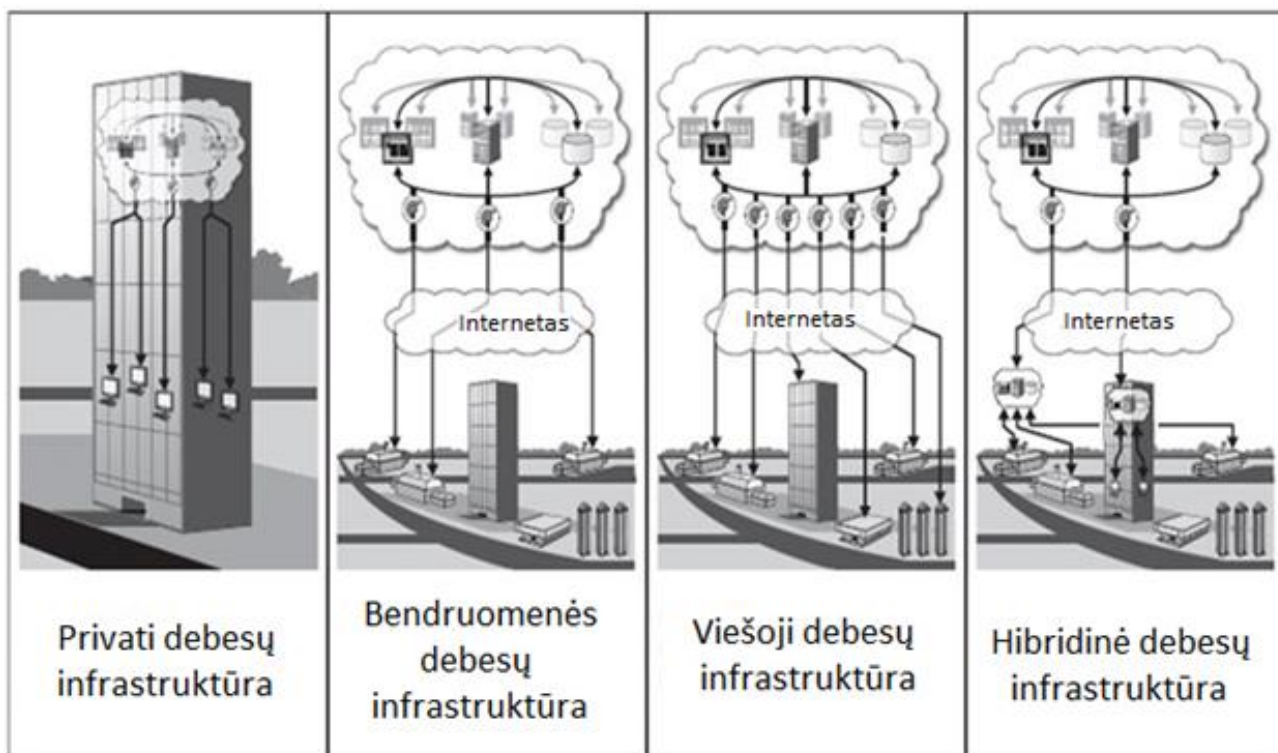
Private cloud – Privati debesų infrastruktūra skirta naudoti tik vienai organizacijai ar įmonei, apimančiai kelis vartotojus, užtikrinanti maksimalų duomenų saugumą ir resursų kontrolę, ypač įmonėse, kuriose keliami labai aukšti duomenų saugumo reikalavimai. Prižiūrimi ir administruojami vietiniame tinkle.

Community cloud – Bendruomenės debesų infrastruktūra, skirta naudoti konkrečiai bendruomenei, organizacijoms, kurios dalinasi bendrais tikslais. Jos duomenų saugumo reikalavimai yra ne tokie dideli kaip privačių debesų.

Public cloud – Viešoji debesų infrastruktūra – tai labiausiai pasitaikantis debesų tipas, skirtas naudoti plačiajai visuomenei. Debesų resursai gerai išnaudojami, tačiau yra labiau pažeidžiami nei privatūs debesys. Juose teikiamos tokios paslaugos kaip mobiliųjų telefonų paslaugos, duomenų bazės, elektroninis paštas, teksto redaktoriai, talpyklos, žemėlapiai, dideli skaičiavimai, balso atpažinimo ar programų testavimai bendriems projektams.

Hybrid cloud – Hibridinė debesų infrastruktūra, kuri susideda iš dviejų ar daugiau debesų infrastruktūros tipų. Tokia debesų infrastruktūra leidžia patalpinti svarbius duomenis privačiuose debesyse, o prie jų prisijungti per viešąjį debesų tinklą naudojant specialiai tam pritaikytą programinę įrangą. Šiai debesų infrastruktūrai keliami aukšti duomenų saugumo

reikalavimai. Dėl šių hibridinės infrastruktūros teikiamų privalumų, būtent šis išdėstymo modelis būtų naudojamas įdiegtai debesų technologijai, veikiančiai lygiagrečiai kartu su SCADA sistema.



2.2.2 Pav. Debesų kompiuterijos išdėstymo modeliai

2.3 Debesų kompiuterijos susiformavimas ir vystymasis

Debesų kompiuterija nėra nauja staiga sukurta technologija, jos įdėja pradėjo formuotis prieš kelis dešimtmečius, o tiksliau 1957 metais, profesoriaus John McCarthy, gerai žinomo kompiuterių mokslininko. McCarthy teigė, kad ateis laikas, kada įmonės pradės tiekti kompiuterinių resursų paslaugas ir nuomoti jas vartotojams siekiant užsidirbti.

Pačioje pradžioje į kompiuteriją žiūrėta kaip į priemonę tam tikriems procesams versle automatizuoti, siekiant padidinti veiklos efektyvumą bei produktyvumą, todėl pagrindinis dėmesys buvo skiriamas organizacijoms atskirai. Tai buvo pirmasis kompiuterijos etapas, kai organizacijos ieškojo kaip ją pritaikyti viduje ir taip įgyti konkurencinį pranašumą. Neretai šios pirkdavo galingą kompiuterių infrastruktūrą: serverius, procesorius, centralizuotą duomenų bazę bei tinklus. Šios organizacijos (OEM – originalios įrangos kūrėjai) turėdavo savo protokolus, techninę ir programines įrangas, taip pat ekspertus, kurie kurdavo perdavimo ryšius tarp komunikuojančių įrenginių. Tačiau toks individualumas turėjo didelių nesklaidumų – jokie du atskiri originalios įrangos kūrėjų įrenginiai negalėdavo bendrauti tarpusavyje. Įrenginiai

bendradavo tik su tais įrenginiais, kurie būdavo sukurti to paties įrangos kūrėjo, su tuo pačiu protokolu. Tokiu būdu įmonės skirdavo didelius biudžetus tobulinti savo kompiuterinę įrangą, tačiau jas labai apribodavo turimi finansiniai ištekliai, kas turėjo įtakos gan lėtam technologijos vystymuisi nuo 1950-ųjų iki 1987-ųjų metų.

Antrasis kompiuterijos etapas pagrinde susijęs su interneto augimu, paties interneto susikūrimas bei atsiradę patogūs, lengvai naudojami, vizualiai patrauklūs įrenginiai, kuriuos galėjo įsigyti beveik kiekvienas. Čia didžiausią reikšmę turėjo bendrų standartų priėmimas, kurį atliko IEEE (ang. *The Institute of Electrical and Electronics Engineers*) ir organizacijos IOS (ang. *International Organisation for Standardisation*) sukurta 7 lygių OSI modelis. Tai leido originalios įrangos kūrėjams nustoti domėtis protokolų ir standartų kūrimu bei tobulinimu savo įmonėms viduje ir susitelkti į techninės ir programinės įrangos vystymą, suteikiant vartotojams vis daugiau paslaugų ir kokybės. Taip interneto idėja buvo įtraukta į verslo bendruomenę ir vis labiau taikoma, įtraukiant vis didesnę vartotojų skaičių ir pritaikyta žmonėms mažiau nusimanantiems technologijose. Prasidėjo savaiminis spartus tinklo „augimas“ dėl galimybės besidomintiems asmenims jį kurti. Nors kompiuterių infrastruktūra tobulėjo, tačiau ji vis dar buvo brangi, per daug perkrauta, lėta bei nelanksti.

Vis labiau organizacijoms buvo reikalingas tarpusavio ryšys tarp plačiai išsimėčiusių biurų, siekiant suteikti darbuotojams visas jiems reikiamas žinias, duomenis ir vykstančius procesus, palaikančius organizacijos veiklą. Tačiau šis uždavinys tuo metu buvo komplikotas, nes dažniausiai organizacijos visus savo duomenis laikydavo savo pagrindiniame duomenų centre ir prie jo prisijungti buvo galima tik per įmonės vidinį tinklą. Tokio tinklo apsauga pasižymėjo pažeidžiamumu ir reikėdavo imtis papildomų priemonių norint aprūpinti vartotojus duomenų perdavimu piko metu, o įrangos atnaujinimas kainuodavo didžiules pinigų sumas, kas vertė organizacijas ieškoti naujų galimybių.

Viena iš internetinių kompanijų „Yahoo“ pirmoji sukūrė katalogą, kuriame būtų galima rasti visų esamų svetainių sąrašus ir nors tai buvo atliekama rankiniu būdu, sistema veikė sėkmingai. Tačiau sparčiai plėtojantis internetui ir augant vartotojų skaičiui buvo akivaizdu, kad „Yahoo“ sukurta sistema vieną dieną nebesugebės apimti didėjančio srauto. Šią problemą išsprendė „Google“ kompanija, kurią ir galime pavadinti pirmąja debesų kompiuterija. Čia „Google“ pakeitė 3 pagrindinius aspektus automatizuojant beveik visą procesų dalį, pagerinant ir pagreitinant serverių darbą ir pačią kompiuterių infrastruktūrą:

- Programinio kodo pagalba visos internetinės svetainės automatiškai buvo atrenkamos ir apdorojamos į atitinkamą poziciją paieškos sistemoje.
- Siekiant sumažinti išlaidas kompiuterių infrastruktūrai, jos sukonstruotos iš įvairių komponentų, kurios esant reikalui rezervuoja viena kitos veikimą įvykus gedimui. Tokia

sistema užtikrina labai aukštą paslaugų kokybę, kurios dar niekas nebuvo sukūrę ir įgyvendinę.

- Sukurta „*Google File System*“ sistema, kuri gautus duomenis surūšiuoja taip, kad dažniau lankomos ir naudojamos svetainės atsiduria paieškos sistemos viršuje.

„*Google*“ pėdomis pasiekė ir kompanija „*Amazon.com*“, kuri pirmoji pradėjo siūlyti lanksčias debesų kompiuterijos paslaugas, pritaikius „*Google*“ serverių darbo principus. O pirmąjį ir pigiai viešąjį debesų vartotojams išsinuomoti pasiūlė kompanija „*Salesforce.com*“, kuri siūlė įsigyti ne visą kompiuterijos infrastruktūrą ar platformą, kurioje įmonės galėtų kurti savo programinę įrangą, o jau paruoštą programinę įrangą įmonėms.

Taip besiplėtojant ir tobulėjant kompiuterių infrastruktūrai, žymiai pagreitėjus serverių darbams, tapus internetui prieinamu beveik visuose pasaulio kampeliuose, susidarė puikios sąlygos susikurti taip vadinamai debesų kompiuterijai (angl. *Cloud computing*).

2.4 Debesų kompiuterijos apsauga ir privatumas

Siekiant sukurti neprikaištingai veikiančią debesų kompiuterijos technologiją, susiduriama su pačiu didžiausiu ir kebliausiu uždaviniu – apsaugos užtikrinimu ir valdymu. Kadangi slapti duomenys ir programos yra perkeliama į debesų duomenų centrus ir dirba su virtualiais kompiuterijos resursais, virtualios aplinkos formoje, sąlygojant daugybę apsaugos problemų. Septyni pagrindiniai apsaugos pažeidimai pagal CSA (angl. *Cloud Security Alliance*) gali būti:

- *Nefarious Use of Cloud Computing* – Nedoras debesų kompiuterijos naudojimas, kuris tarp visų pažeidimų yra pats dažniausias. Įsibrovėliai įsiskverbia į viešą debesų tinklą ir įkelia į jį savo kenkėjišką programą užkrečiant tūkstančius kompiuterių. Tokiu būdu pasinaudojus galinga debesų infrastruktūra siekiama užpulti kitus sistemoje esančius kompiuterius ir virtualias mašinas.
- *Insecure API (Application Programming Interfaces)* – Nesaugi taikomųjų programų sąsaja, kuri užtikrina vartotojų susijungimą su debesų kompiuterijos serveriais. Kai šią sąsają pradeda kurti trečiosios šalys, vartotojas rizikuoja tiekiamų duomenų vientisumu ir konfidencialumu.
- *Shared Technology Vulnerabilities* – Bendras technologijų pažeidžiamumas, kai skirtingų vartotojų duomenys yra patalpinti tame pačiame duomenų centre ir įvykus klaidai vartotojai gauna svetimus duomenis.

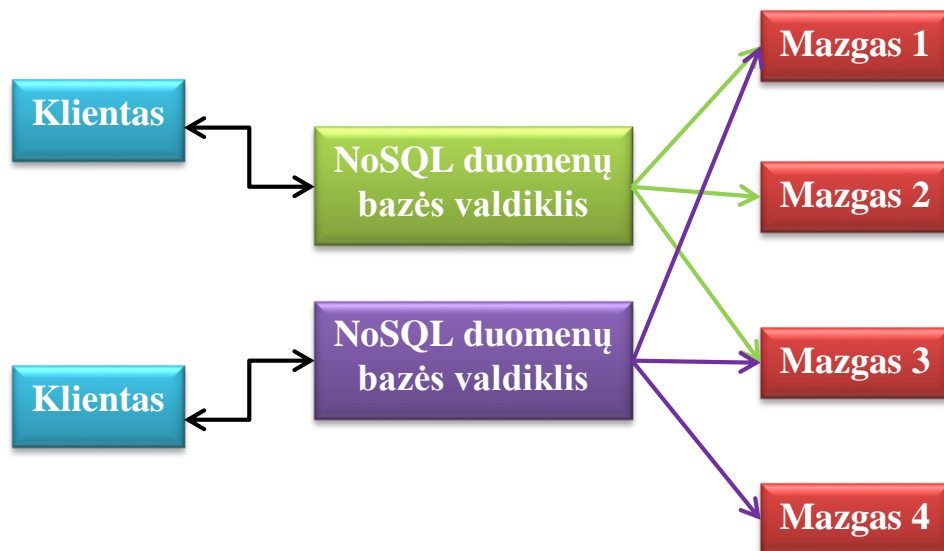
- Data Loss/Leakage – Duomenų praradimas ar nutekėjimas. Tai gan dažna debesų kompiuterijos problema, kai duomenų centrų tiekėjai uždaro savo serverius dėl finansinių ar teisinių problemų ir vartotojai praranda savo duomenis.
- Traffic Hijacking – Įsibrovimas į duomenų perdavimą, kai atsiranda įsibrovėlis duomenų srauto perdavimo tinklo viduryje ir įsiskverbia į jį, pripildydamas tinklą įvairiausiomis parazitinėmis programomis ar šiukšlėmis.
- Malicious insiders – Kenkėjiškas įsibrovėlis iš vidaus, sukeliantis pažeidimus, sukčiavimus, vagystes ar konfidencialių duomenų praradimus įsileidžiant į sistemą „patikimą“ vartotoją.

Apsisaugoti nuo šių pažeidimų, egzistuojančioje debesų kompiuterijoje, naudojami tokie apsaugos nuo kenkėjų ir įsibrovėlių sprendimai:

- Mirage Image Management System – Virtualios aplinkos valdymo sistema, kurios saugumą užtikrina virtualiųjų mašinų vientisumas ir naudojami specialūs filtrai. Ši sistema talpina visus vartotojo įvykdytus pakeitimus virtualioje aplinkoje, leidžiant tam pačiam vartotojui grįžti į norimą būseną prieš atliktus pakeitimus. Prie vartotojo virtualiosios aplinkos, kuri yra privati, gali prieiti tik tų duomenų savininkas ir sistemos administratorius, taip neleidžiant įsiterpti nepageidautiniems įsibrovėliams.
- Client Based Privacy Manager – Privatumo valdymas paremtas vartotoju. Ši programa padeda sumažinti duomenų praradimo pavojų, privačios bei svarbios *debesų kompiuterijos* informacijos pasisavinimo ir teikia papildomas priemones privatumui užtikrinti.
- Transparent Cloud Protection System (TCPS) – Atvira debesų apsaugos sistema, skirta apsaugoti svečio virtualiąją mašiną. Ji leidžia sistemos šeimininkui stebėti svečio virtualiąją mašiną ir efektingai aptikti įvairiausias įsibrovėlių atakas ir jei reikia, pagal apsaugos polisą, imtis būtiniausių priemonių šiam įvykiui sustabdyti.
- Internet protocol service level agreement (SLA) – Internetinis protokolas, užtikrinantis paslaugų kokybę, yra vienas iš svarbiausių protokolų, skirtas debesų kompiuterijos atvirumui. Tai vienintelis legalus susitarimas tarp paslaugų tiekėjo ir vartotojo, kuris turi užtikrinti paslaugų tiekimą, teisinių nuostatų laikymąsi, suteikti reikiamą apsaugą ir privatumą bei leisti tiek vartotojui, tiek paslaugų tiekėjui stebėti tinklą.

2.5 NoSQL duomenų bazės valdymo sistema

NoSQL duomenų bazė – tai mechanizmas, suteikiantis duomenų saugojimo ir jų paieškos galimybę, kuris nenaudoja reliacinių duomenų bazių valdymo sistemų modelio principų. Įvairūs duomenys gali būti įdėti į NoSQL duomenų bazę be jokios išankstinės nustatytos duomenų bazės schemas. Čia įtrauktų duomenų formatas gali būti pakeistas bet kuriuo laiko momentu ir tai visai nesutrikdytų sistemos darbo, kas suteikia milžinišką programos lankstumą bei galima daug duomenų valdyti nepriklausomai vienu metu (2.5.1 Pav.).



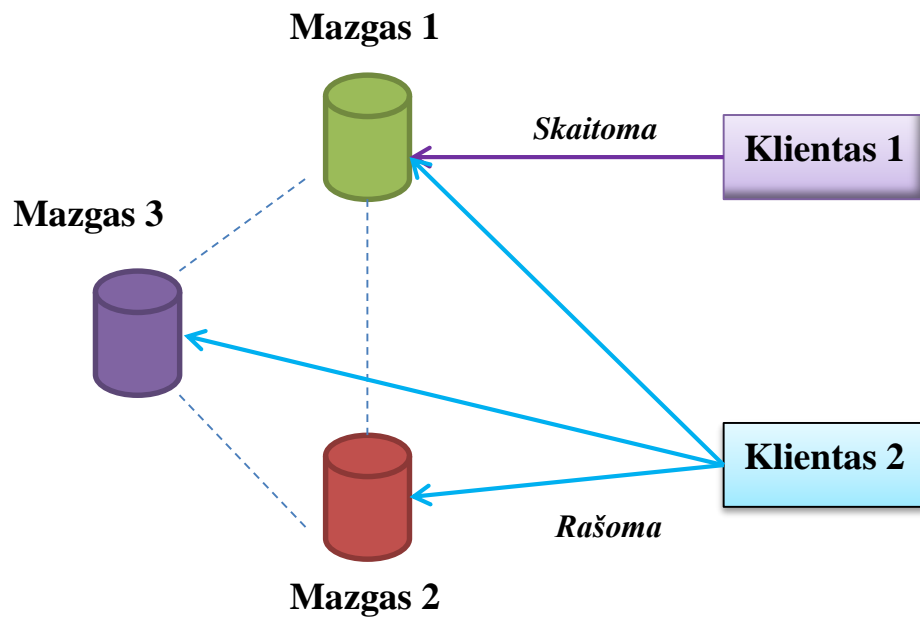
2.5.1 Pav. NoSQL duomenų bazės sistemos architektūra

Ši duomenų bazė automatiškai paskirsto duomenis tarp sistemoje esančių serverių ir gali pridėti arba pašalinti esamus ar naujus serverius į sistemą, nesutrikdant pačios sistemos darbo bei nenaudojant jokių papildomų programų. Tam, kad būtų užtikrintas patikimas duomenų prieinamumas, saugumas ir duomenų išsaugojimas, kai sistema dėl įvykusių gedimų dirba nekorektiškai, NoSQL duomenų valdymo sistemos atlieka duomenų dubliavimą, kurie gali būti laikomi duomenų centruose. Vis dėlto tinkamai valdant ir prižiūrint šias duomenų bazes, duomenys visada būtų prieinami, nes sistema niekada neturėtų būti išjungta.

Taip pat NoSQL duomenų bazės sistema turi atskiras užklausų sistemas ir nenaudoja standartinės užklausų kalbos SQL. Čia duomenų bazių valdymo sistemos išlaiko savo greitą veikimą ir efektyvumą net tada, kai yra atliekama komunikacija su šimtais ar tūkstančiais serverių. Be to, siekiant sumažinti sistemos vėlinimą ir padidinti nenutrūkstamą duomenų pralaidumą, visi reikiami duomenys yra kaupiami sistemos atmintyje.

Ši NoSQL duomenų bazės sistema suteikia informacijos pasiskirstymo galimybę ir geresnį pasiekiamumą, vykstant duomenų įrašymui ir nuskaitymui, kas ypatingai yra svarbu

debesų kompiuterijoje, kur kiekvienas iš sistemoje esamų mazgų bet kuriuo laiko momentu gali nustoti funkcionavęs.



2.5.2 Pav. NoSQL duomenų bazės sistemos modelis skaitant ir rašant įrašus

3. VIZUALIZAVIMAS SAMMON ALGORITMU

3.1 Sammon algoritmas

Sammon algoritmas, kuris dar vadinamas *Sammon* metodu ar projekcija, atlieka netiesinių objektų, apibūdinamų daugeliu parametru, atvaizdavimą mažesnio skaičiaus matmenų erdvėje R^d , kur dažniausiai $d=2$. Šis algoritmas yra priskiriamas prie daugiamatinių skalių metodų grupės, kuris skirtas išsaugoti tiek mažus, tiek didelius atstumus tarp taškų, esančių daugiamatėje erdvėje taip, kad jie liktų kaip įmanoma panašesni į atstumus tarp taškų projekcijos plokštumoje. *Sammon* algoritmas yra vienas iš populiariausių vizualizavimo algoritmų, kuris minimizuoja projekcijos iškraipymą (paklaidą) E_S :

$$E_S = \frac{1}{\sum_{i<j} d(X_i, X_j)} \sum_{i<j} \frac{(d(X_i, X_j) - d(Y_i, Y_j))^2}{d(X_i, X_j)} \quad (3.1.1)$$

Kur: $d(X_i, X_j)$ – Atstumas tarp vektorių X_i ir X_j ; $d(Y_i, Y_j)$ – Atstumas tarp vektorių Y_i ir Y_j , kai n -matį vektorių $X_i \in R^n$, $i \in \{1, \dots, m\}$, atitinka mažesnio skaičiaus matmenų vektorius $Y_i \in R^d$, $d < n$.

Sammon paklaida E_S suprantama kaip matas, kuris parodo, kaip tiksliai išlaikomi atstumai tarp vektorių pereinant iš didesnio skaičiaus matmenų erdvės į mažesnio skaičiaus matmenų erdvę. Šioje algoritmo paklaidoje, gaunamoje iš 3.1.3 formulės, maži atstumai turi didesnę vertę nei dideli atstumai, kai vertės parenkamos pagal formulę:

$$w_{ij} = \frac{1}{d(X_i, X_j) \sum_{k<l} d(X_k, X_l)} \quad (3.1.2)$$

$$E_{DS} = \sum_{i<j} w_{ij} (d(X_i, X_j) - d(Y_i, Y_j))^2 \quad (3.1.3)$$

Siekiant minimizuoti paklaidos funkciją E_S naudojama pseudo-Niutono strategija, kai dvimačių vektorių $Y_i \in R^2$ komponentės y_{ik} , $i = 1, \dots, m, k = 1, 2$, randamos pagal iteracinę formulę:

$$y_{ik}(t+1) = y_{ik}(t) - \eta \frac{\frac{\partial E_S(t)}{\partial y_{ik}(t)}}{\left| \frac{\partial^2 E_S(t)}{\partial y_{ik}^2(t)} \right|} \quad (3.1.4)$$

Kur: t – iteracijos numeris, kai viena iteracija perskaičiuojamos visų m vektorių $Y_i \in R^2, i = 1, \dots, m$, komponentės; η – optimizavimo žingsnio ilgį reguliuojantis parametras.

Pirmos ir antros eilės dalinės išvestinės yra apskaičiuojamos pagal formules:

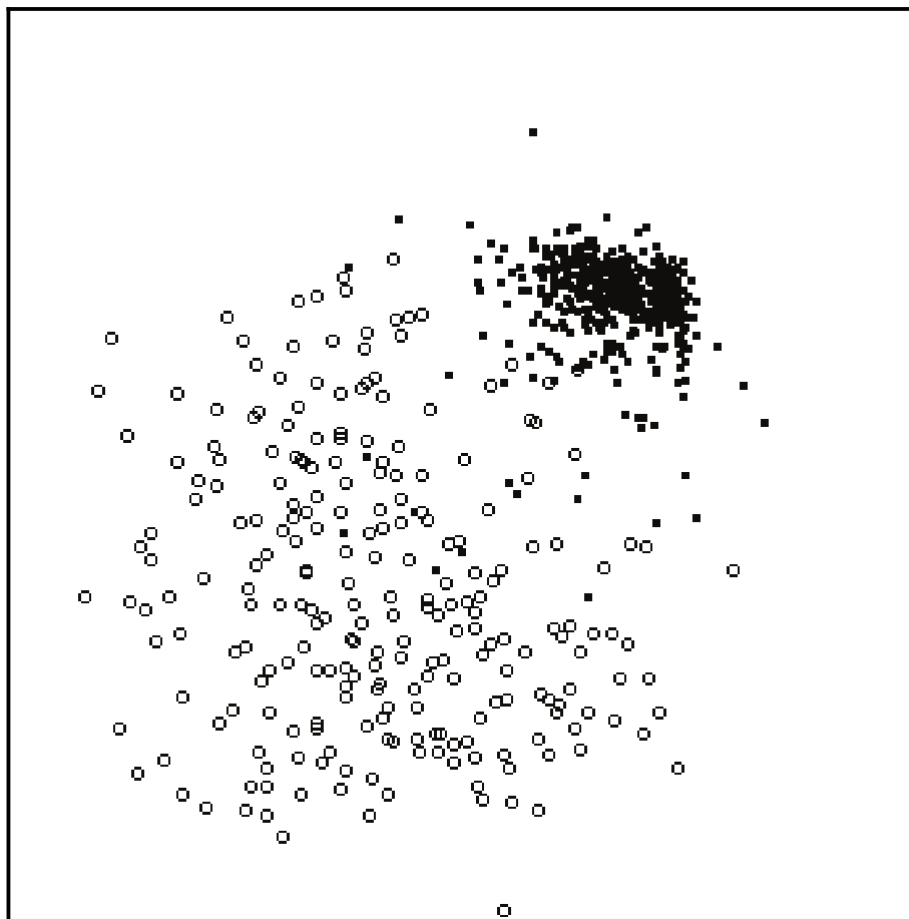
$$\frac{\partial E_S}{\partial y_{ik}} = -\frac{2}{c} \sum_{i \neq j} \left(\frac{d(X_i, X_j) - d(Y_i, Y_j)}{d(X_i, X_j)d(Y_i, Y_j)} \right) (y_{ik} - y_{jk}) \quad (3.1.5)$$

$$\frac{\partial^2 E_S}{\partial y_{ik}^2} = -\frac{2}{c} \sum_{i \neq j} \frac{1}{d(X_i, X_j)d(Y_i, Y_j)} \left[\left(d(X_i, X_j) - d(Y_i, Y_j) \right) - \frac{(y_{ik} - y_{jk})^2 d(X_i, X_j)}{d^2(Y_i, Y_j)} \right] \quad (3.1.6)$$

$$c = \sum_{i < j} d(X_i, X_j) \quad (3.1.7)$$

Sammon algoritmo paklaida E_S priklauso ir nuo parametro η ir nuo vektorių $Y_i, i = 1, \dots, m$, komponentių $y_{ik}, k = 1, 2$ pradinių reikšmių parinkimo. Optimizavimo žingsnio rekomenduojama reikšmė, kuri užtikrina pakankamai gerą *Sammon* algoritmo konvertavimą į minimumą, yra intervale $\eta \in [0,3; 0,4]$.

Sammon algoritmo pavyzdys atvaizduojantis daugiamačių taškų išsidėstymą dvimatėje plokštumoje pateikiamas 3.1.1 paveiksle. Šiame paveiksle nėra vaizduojamos taškų koordinatės koordinačių ašyje, kadangi šis algoritmas nepriklauso nuo perkėlimo, pasukimo ir visų kitų tiesinių transformacijų, kas lemia ekvivalenčias projekcijas įvairiuose plokštumos vietose nepriklausomai nuo duomenų tipo. Panašūs daugiamačiai duomenys atvaizduojami taškais ar kitais pasirinktais ženklais šalia vienas kito, o išsiskiriantys duomenys nutolsta ir išsimėto dvimatėje plokštumoje. Šiame paveiksle yra vaizduojami dveji skirtingi analizuojamų objektų daugiamačiai duomenys, vieni atvaizduojami dvimatėje plokštumoje juodais kvadraciukais, o kiti apskritimais. Iš šio pavyzdžio matoma, kad juodais kvadraciukais vaizduojami daugiamačiai duomenys yra panašūs ir išsidėstę šalia vienas kito dvimatėje plokštumoje, o apskritimais vaizduojami daugiamačiai duomenys išsiskiria ir yra išsimėtę.



3.1.1 Pav. *Sammon* algoritmu vizualizuotas daugiamačių taškų išsidėstymas dvimatėje plokštumoje

3.2 Priešavarinių ir avarinių režimų vizualizavimas *Sammon* algoritmu

Neretai iš tam tikro stebimo elektros energetikos sistemos įrenginio ar objekto yra gaunama daugybė skirtingų parametrų. Vienu metu išanalizuoti ir juos tinkamai įvertinti gan sudėtinga ar net fiziškai neįmanoma, ypač tada, kai šių stebimų įrenginių ar objektų skaičius arba gaunamų duomenų kiekis ženkliai padidėja. Visais įrenginio ar stebimo objekto darbo režimais šie duomenys būtų kaupiami debesų kompiuterijos aplinkoje ir iš jų sudaromi statistiniai duomenys, grafikai, histogramos ar kitos norimos charakteristikos bei priklausomybės.

Vis dėlto elektros energetikos sistemoje yra labai svarbu iš didelio duomenų kiekio išskirti svarbius ar skubius duomenis. Šiama baigiamajame magistriniame projekte tokie duomenys yra priimami kaip parametrai, atsirandantys priešavarinių arba avarinių režimų metu, į kuriuos privaloma reaguoti pirmiau nei į duomenis, gaunamus normaliu darbo režimu. Toks svarbių duomenų išskyrimas iš didelio jų kiekio leistų greitai ir efektingai priimti atitinkamus tolimesnius veiksmus, užtikrinančius efektingą bei optimalų sistemos darbą su geriausiais kokybės rodikliais ir nenutrūkstamu elektros tiekimu visiems esamiems vartotojams.

Vizualiai tai galima atlikti pasinaudojus *Sammon* algoritmu, kuris iš gaunamų elektros energetikos sistemos įrenginio ar objekto parametrų gausos, sudarytų daugiamačių taškų išsidėstymą dvimatėje plokštumoje, kur kiekvienas daugiamatis taškas sudaromas iš tuo pačiu laiko momentu gaunamų parametrų. Normaliu darbo režimu būtų gaunami panašūs duomenys, kintantys tam tikrame intervale, kurie atvaizduojami dvimatėje plokštumoje taškais šalia vienas kito pagrindinėje taškų susikongravimo vietoje. Priešavarinio režimo metu gauti duomenys būtų atvaizduojami taškais, šiek tiek nutolusiais nuo pagrindinės taškų susikongravimo vietos. Avarinio režimo metu, kuomet įvyksta elektros energetikos sistemos įrenginio ar objekto gedimas ar avarija, duomenys būtų atvaizduojami taškais itin nutolusiais nuo pagrindinės taškų susikongravimo vietos.

Šiame baigiamajame magistro projekte *Sammon* algoritmo kodas *MatLab* programa sudaromas pagal priede (žr. Priedas Nr.1) pateiktą „*MatLab* programa naudojamo *Sammon* algoritmo logikos pagrindas“ programą, be kurios neįmanomas tolimesnių sudarytų vizualizavimo kodų (žr. 3.2.2; 3.2.3; 3.2.4; 3.2.5 skyrius) veikimas.

3.2.1 Vizualizavimui naudojami duomenys

Elektros energetikos sistemos įrenginį ar objektą gali apibūdinti daug ir skirtingų parametrų ir kuo šių parametrų skaičius didesnis, tuo sudėtingesnis jų vizualizavimas. Tačiau *Sammon* algoritmas gali atvaizduoti pasirinktus parametrus nepriklausomai nuo jų kiekio, tipo ar matuojamos reikšmės.

Šiame baigiamajame magistro projekte naudojami duomenys gauti iš trijų skirtingų savų reikmių transformatorių (T-11 10 kW, T-21 25 kW, T-22 50 kW). Kiekvieno matavimo metu, nuskaityta trisdešimt skirtingų parametrų penkių sekundžių intervalu. Matuojamųjų parametrų reikšmės pateikiamos lentelėje žemiau (žr. Lentelė Nr.3.2.1).

Lentelė Nr.3.2.1 Matuojamųjų parametrų reikšmės

Eil. Nr.	Parametro pavadinimas	Matavimo vienetas
0.	Laikas	h:m:s
1.	Srovė fazė A	A
2.	Srovė fazė B	A
3.	Srovė fazė C	A
4.	Įtampa A-B	V
5.	Įtampa B-C	V
6.	Įtampa C-A	V
7.	Įtampa A-N	V
8.	Įtampa B-N	V

9.	Įtampa C-N	V
10.	Aktyvioji galia fazė A	kW
11.	Aktyvioji galia fazė B	kW
12.	Aktyvioji galia fazė C	kW
13.	Reaktyvioji galia fazė A	kVar
14.	Reaktyvioji galia fazė B	kVar
15.	Reaktyvioji galia fazė C	kVar
16.	Suminė galia fazė A	kVA
17.	Suminė galia fazė B	kVA
18.	Suminė galia fazė C	kVA
19.	THD/thd įtampos fazė A-N	%
20.	THD/thd įtampos fazė B-N	%
21.	THD/thd įtampos fazė C-N	%
22.	THD/thd įtampos fazė A-B	%
23.	THD/thd įtampos fazė B-C	%
24.	THD/thd įtampos fazė C-A	%
25.	Bendra aktyvioji energija	kWh
26.	Bendra reaktyvioji energija	kVArh
27.	Suminė energija	kVAh
28.	Apvijų temperatūra	°C
29.	Alyvos temperatūra	°C
30.	Aplinkos temperatūra	°C

Iš šių matuojamų parametrų reikšmių į vizualizavimą *Sammon* algoritmu nėra įtraukiamas laiko matavimas (žr. Eil. Nr. 0), nes tai nėra reikšmė, pagal kurią būtų adekvatu lyginti gautus įrenginių ar objektų parametrus daugiamačiais taškais dvimatėje plokštumoje. Taip pat neįtraukiama aplinkos temperatūros (žr. Eil. Nr. 30) matavimo reikšmė, nes nuo šio parametro nepriklauso transformatoriaus darbo režimas, kitaip sakant tai nėra parametras, kintantis nuo transformatoriuje vykstančių procesų.

Sudaromas vizualizavimo kodas leidžia bet kuriuo laiko momentu pridėti ar atimti matuojamų parametrų reikšmes, siekiant pakeisti lyginamuosius parametrus, įvertinti atitinkamas priklausomybes ar atvaizdavimo detalumą. Minimalus reikalaujamas matavimų kiekis skirtingu laiko momentu ir matuojamų parametrų reikšmių skaičius, kad vizualizavimo kodas veiktų, negali būti mažesnis už tris.

3.2.2 T-21 25 kW savų reikmių transformatoriaus duomenų vizualizavimas

Matavimai atlikti T-21 25 kW savų reikmių transformatoriui, kurio metu penkių sekundžių intervalu nuskaityta beveik devyni šimtai (897) duomenų, susidedančių iš trisdešimties parametrų (žr. Lentelė Nr.3.2.1). Dėl didelio duomenų kiekio priede pateikiama tik dalis nuskaitytų duomenų (žr. Priedas Nr.2). Pilnas nuskaitytų duomenų sąrašas pateikiamas kompaktiniame diske (žr. CD/Priedas Nr.2 2016.08.15 T-21 25kW).

Pasinaudojus priede (žr. Priedas Nr.1) pateiktu „*MatLab* programa naudojamo *Sammon* algoritmo logikos pagrindas“ kodu, *MatLab* programiniu paketu parašytas T-21 25 kW nuskaitytų duomenų vizualizavimo kodas *Sammon* algoritmu.

Parašytas T-21 25 kW savų reikmių transformatoriaus nuskaitytų duomenų vizualizavimo kodas („“), kuriame žalios spalvos tekstas su grotelėmis nurodo *Sammon* algoritmo komentarus ir jo veikimo paaiškinimus bei gali būti ištrintas veikiant *MatLab* programai, nes nuo jo nepriklauso pačio algoritmo veikimas:

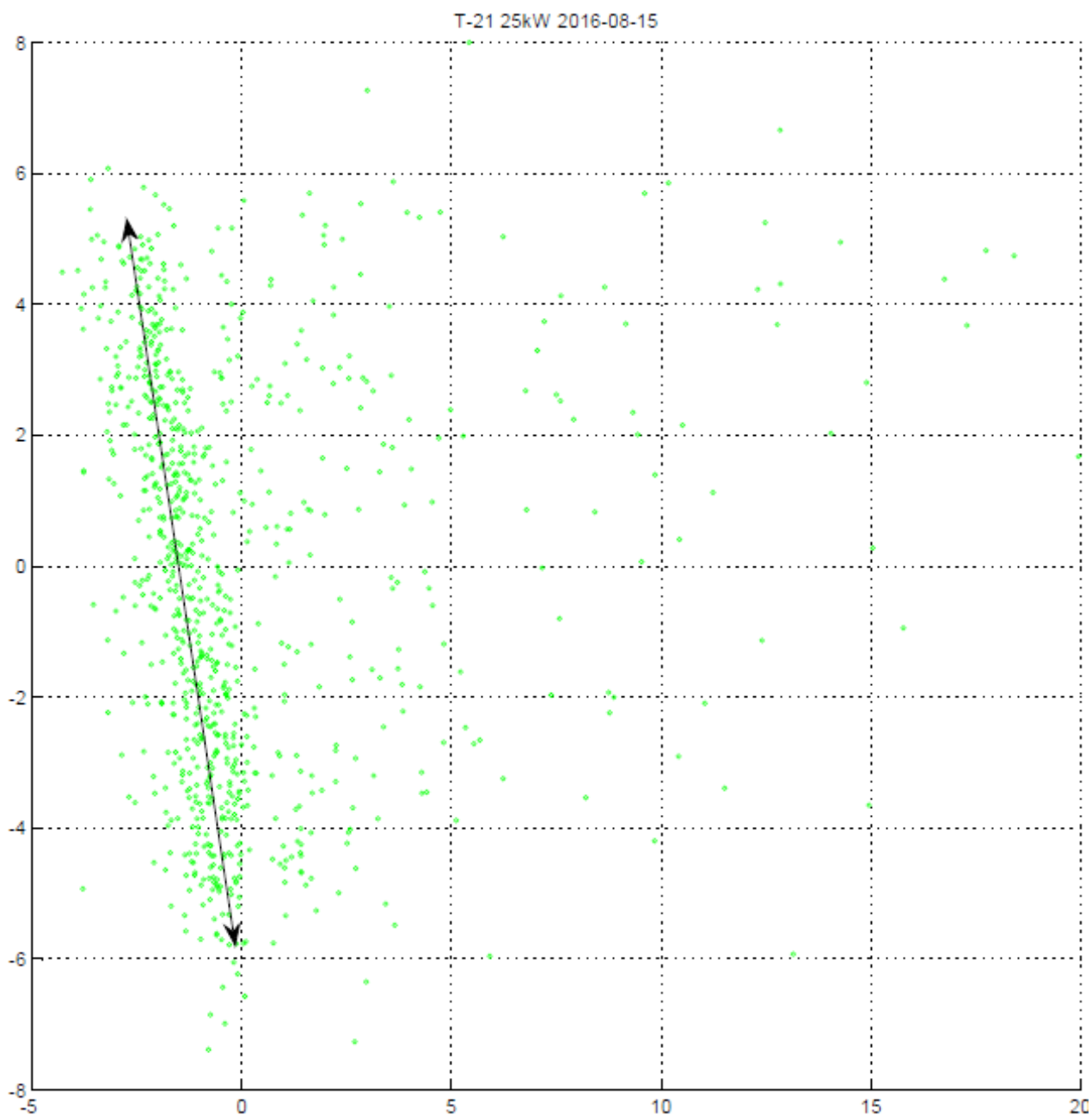
```
„    %function algoritmo eilutė nurodo CD kompaktiniame diske esančio T-21 25 kW
    %savų reikmių transformatoriaus duomenų vizualizavimo Sammon algoritmų failo
    %pavadinimą, kuriame yra parašytas pats algoritmas.
function KodasT21MatLab25kW20160815()
    %D = csvread algoritmo eilutė nurodo Microsoft Excel programos failo
    %pavadinimą, iš kurio yra paimami T-21 25 kW savų reikmių transformatoriaus
    %nuskaityti duomenys. Tam, kad Sammon algoritmas veiktų teisingai, Microsoft
    %Excel failas turi būti sukurtas csv formatu. Taip pat visi failai, skirti
    %vizualizavimui, turi būti patalpinti viename folderyje.
D = csvread('2016.08.15 T-21 25kW.csv', 1, 1);
[p1, ~] = size(D);
%norm_data = D algoritmo eilutė nurodo, kurios T-21 25 kW savų reikmių
%transformatoriaus parametrų reikšmės yra įtraukiamos į Sammon algoritmo
%vizualizavimą. Čia kiekvienas skaičius nurodo matuojamojo parametro reikšmę ir
%matavimo vienetą (žr. Lentelė Nr.3.2.1).
norm_data = D(:,
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29]);
%norm_data = zscore(norm_dara) algoritmo eilutė yra skirta apskaičiuoti turimų
%daugiamačių duomenų normaliojo skirstinio tikimybę ir palyginti dviejų skirtingų
%normaliųjų skirstinių rezultatus tarpusavyje.
norm_data = zscore(norm_data);
```

```

%option = sammon algoritmo eilutė nurodo, kad kodas turi veikti pagal Sammon
%algoritmo parametrus ir principus.
options = sammon;
%options.MaxIter = 20 algoritmo eilutė nurodo, galimą maksimalų iteracijų skaičių
%Sammon algoritme.
options.MaxIter = 20;
%option.Initialisation algoritmo funkcija nurodo, kad bus naudojama pagrindinių
%komponenčių analizės (pca) funkcija, kuri sumažina duomenų matmenų skaičių
%atliekant tiesinę transformaciją ir atsisakant dalies po transformacijos gautų naujų
%pagrindinių kintamųjų, kurių dispersijos yra mažiausios.
options.Initialisation = 'pca';
data = sammon(norm_data, 3, options);
%plot_scatter algoritmo eilutė skirta atvaizduoti gautas reikšmes dvimatėje
%plokštumoje. Gautas atvaizdas pavadinamas pagal kabutėmis '...' nurodytą vardą,
%kuris šiuo atveju yra T-21 25kW 2016-08-15.
plot_scatter(1, p1, 1, data, 'T-21 25kW 2016-08-15');
%function algoritmo blokas toliau formuoja apskaičiuotų reikšmių vizualizavimą
%dvimatėje plokštumoje. Čia yra nurodomas ašių skaičius (X, Y), brėžiamo
%grafiko tipas, vaizduojamų taškų forma ir spalva ('g' – reiškia žalią, 'r' – reiškia
%raudoną, 'b' – reiškia mėlyną) bei kiti grafikams reikalingi parametrai.
function plot_scatter(fignum, X, Y, data, titlez)
Y = X + Y;
figure(fignum);
hold on;
scatter3(data(1:X,1), data(1:X,2), data(1:X,3), 5, 'g');
title(titlez);
drawnow;
grid;
hold off;
return;

```

Vizualizavimo kodu gautas daugiamačių taškų atvaizdavimas dvimatėje plokštumoje (žr. Pav. Nr.3.2.1):



3.2.1 Pav. T-21 25 kW duomenų atvaizdavimas dvimatėje plokštumoje pasinaudojus *Sammon* algoritmu

Šiame paveiksle (analogiškai 3.2.2 Pav.; 3.2.3 Pav.; 3.2.4 Pav.) yra vaizduojamos taškų koordinatės koordinačių ašyje, siekiant kuo detaliau, tiksliau ir suprantamiau įvertinti gautą rezultatą vizualiai, išlaikant algoritmo nepriklausomumą nuo perkėlimo, pasukimo ir visų kitų tiesinių transformacijų, kas lemia ekvivalenčias projekcijas įvairiose plokštumos vietose nepriklausomai nuo duomenų tipo.

Iš gautų T-21 25 kW transformatoriaus duomenų vizualizavimo dvimatėje plokštumoje matoma, kad beveik visi atvaizduoti daugiamačiai taškai koncentruojasi šalia vienas kito, pagrindinėje susikcentravimo vietoje, kuri yra pažymėta juoda rodykline linija (nubrėžta papildomai) ir tik nedidelis taškų skaičius išsibarsto toliau nuo jos. Pagrindinė taškų

susikoncentravimo vieta susiformavusi „debesies“ pavidalu dėl įvairaus galimo savų reikmių transformatoriaus normalaus darbo režimo. Šio darbo režimo metu parametrai kinta leistinose bei numatytose ribose ir nesukelia pavojingų ar neleistinių procesų tiek savų reikmių transformatoriuje, tiek ir elektros tinklo sistemoje. Tik labai nedidelis daugiamačių taškų skaičius yra nutolęs ir išsibarstęs nuo pagrindinės susikoncentravimo vietos, kas nerodo jokių rimtų ar artėjančių gedimų. Nutolę daugiamačiai taškai gali susidaryti dėl vykstančių elektromagnetinių pereinamųjų procesų elektros sistemos tinkle ar pačiame savų reikmių transformatoriuje.

3.2.3 T-22 50 kW savų reikmių transformatoriaus duomenų vizualizavimas

Matavimai atlikti T-22 50 kW savų reikmių transformatoriui, kurio metu penkių sekundžių intervalu nuskaityta beveik devyni šimtai (899) duomenų, susidedančių iš trisdešimties parametru (žr. Lentelė Nr.3.2.1). Dėl didelio duomenų kiekio priede pateikiama tik dalis nuskaitytų duomenų (žr. Priedas Nr.3). Pilnas nuskaitytų duomenų sąrašas pateikiamas kompaktiniame diske (žr. CD/Priedas Nr.3 2016.08.15 T-22 50kW).

Analogiškai pasinaudojus priedo Nr.1 pateikta programa, parašytas T-22 50kW nuskaitytų duomenų vizualizavimo kodas („“), kuriame žalios spalvos tekstas su grotelėmis nurodo *Sammon* algoritmo komentarus ir jo veikimo paaiškinimus bei gali būti ištrintas veikiant *MatLab* programai, nes nuo jo nepriklauso pačio algoritmo veikimas. Kadangi dauguma komentarų ir veikimo paaiškinimų kartojasi, didžioji dalis jų tolimesniuose vizualizavimo algoritmuose yra ištrinti ir iš jų palikti tik patys svarbiausi.

```
„ function KodasT22MatLab50kW20160815()
D = csvread('2016.08.15 T-22 50kW.csv', 1, 1);
[p1, ~] = size(D);
%norm_data = D algoritmo eilutė nurodo, kurios T-21 25 kW savų reikmių
%transformatoriaus parametru reikšmės yra įtraukiamos į Sammon algoritmo
%vizualizavimą. Čia kiekvienas skaičius nurodo matuojamojo parametro reikšmę ir
%matavimo vienetą (žr. Lentelė Nr.3.2.1).
norm_data = D(:,
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29]);
norm_data = zscore(norm_data);
options = sammon;
options.MaxIter = 20;
options.Initialisation = 'pca';
data = sammon(norm_data, 3, options);
```

```
plot_scatter(1, p1, 1, data, 'T-22 50kW 2016-08-15')
```

```
function plot_scatter(fignum, X, Y, data, titlez)
```

```
Y = X + Y;
```

```
figure(fignum);
```

```
hold on;
```

```
scatter3(data(1:X,1), data(1:X,2), data(1:X,3), 5, 'b');
```

```
title(titlez);
```

```
drawnow;
```

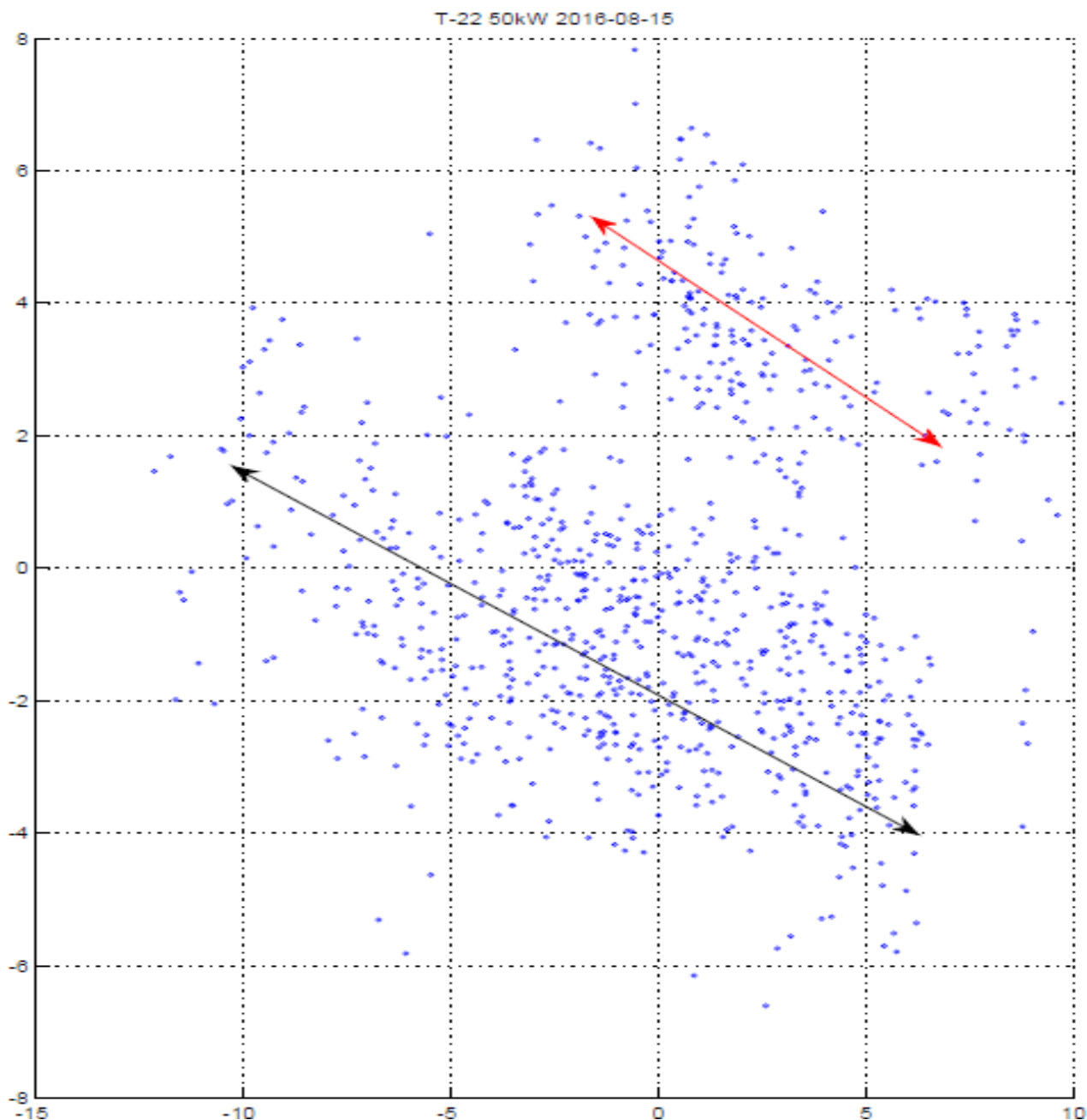
```
grid;
```

```
hold off;
```

```
return;
```

“

Vizualizavimo kodu gautas daugiamačių taškų atvaizdavimas dvimatėje plokštumoje (žr. Pav. Nr.3.2.2):



3.2.2 Pav. T-22 50 kW duomenų atvaizdavimas dvimatėje plokštumoje pasinaudojus *Sammon* algoritmu

Iš gautų T-22 25 kW transformatoriaus duomenų vizualizavimo dvimatėje plokštumoje matoma, kad dauguma atvaizduotų taškų koncentruojasi šalia vienas kito, pagrindinėje susikontcentravimo vietoje, kuri yra pažymėta juoda rodykline linija (nubrėžta papildomai), „debesies“ pavidalu. Tuo tarpu kita dalis taškų koncentruojasi mažesnio dydžio „debesies“ pavidalu, pažymėta raudona rodykline linija (nubrėžta papildomai). Kadangi šis mažesnio dydžio „debesis“ nežymiai nutolęs nuo pagrindinės taškų susikontcentravimo vietos, jis nurodo priešvarinį savų reikmių transformatoriaus darbo režimą. Tokiu darbo režimu savų reikmių transformatorius gali dirbti toliau, tačiau kiek įmanoma greičiau jis turi būti išsamiai apžiūrėtas, patikrintas ir jei reikia atlikti atitinkami bandymai. Tai atliekama siekiant užkirsti

kelią artėjančiam gedimui, galinčiam stipriai sutrikdyti elektros tinklo darbą, prailginti įrenginio darbo trukmę su geriausiais kokybės parametrais ir sutaupyti pinigų dėl netikėtai atsiradusių gedimų. Kiti pavieniai išsibarstę taškai, nesukeliantys jokių nepageidaujamų veiksmų, susiformuoja dėl vykstančių pereinamųjų procesų elektros tinkle ar pačiame savų reikmių transformatoriuje.

3.2.4 T-11 10 kW savų reikmių transformatoriaus duomenų vizualizavimas

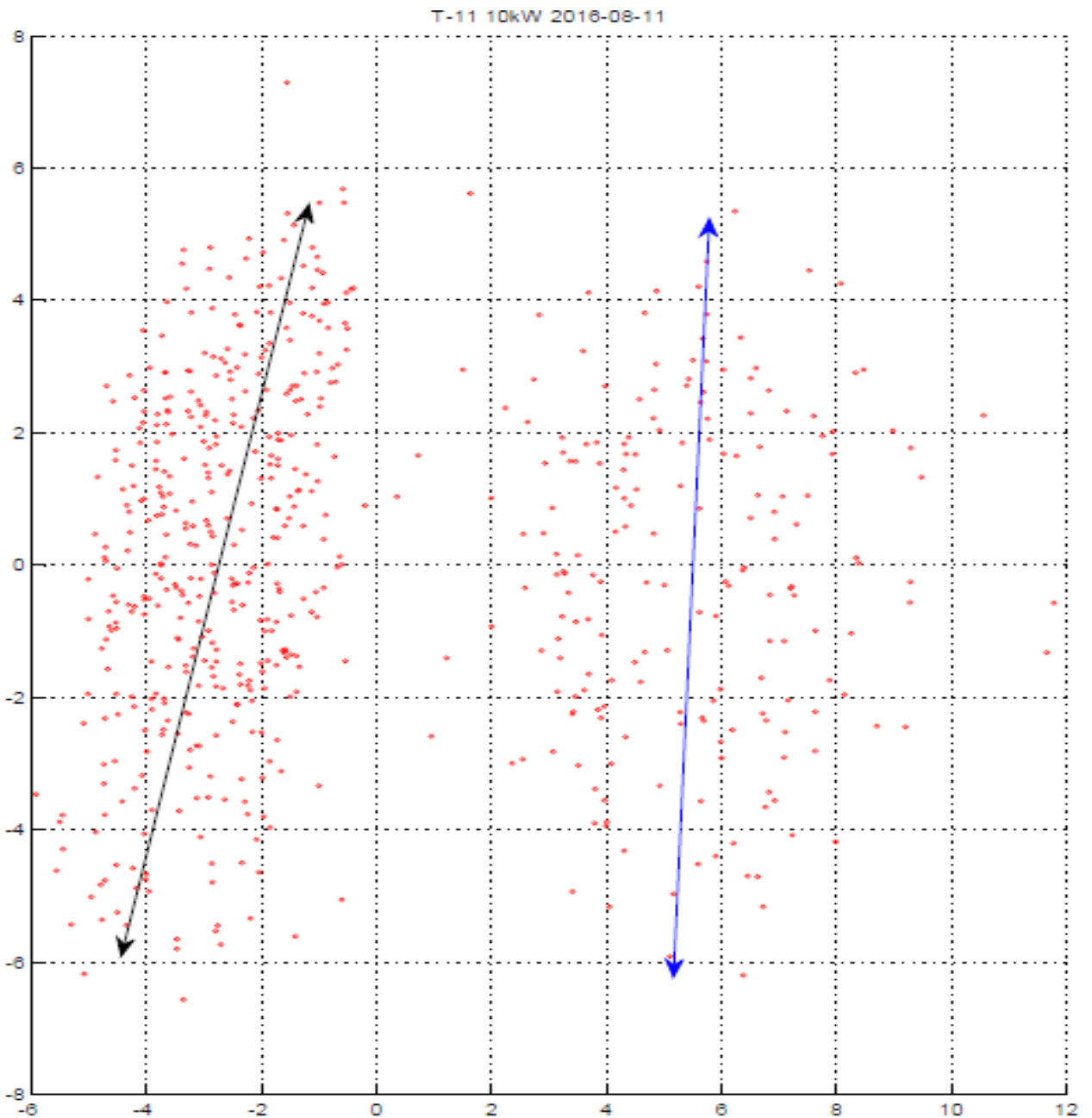
Matavimai atlikti T-11 10 kW savų reikmių transformatoriui, kurio metu penkių sekundžių intervalu nuskaityti šeši šimtai (600) duomenų, susidedančių iš trisdešimties parametru (žr. Lentelė Nr.3.2.1). Dėl didelio duomenų kiekio priede pateikiama tik dalis nuskaitytų duomenų (žr. Priedas Nr.4). Pilnas nuskaitytų duomenų sąrašas pateikiamas kompaktiniame diske (žr. CD/Priedas Nr.4 2016.08.11 T-11 10kW).

Analogiškai pasinaudojus priedo Nr.1 pateikta programa, parašytas T-11 10kW nuskaitytų duomenų vizualizavimo kodas („“), kuriame žalios spalvos tekstas su grotelėmis nurodo *Sammon* algoritmo komentarus ir jo veikimo paaiškinimus bei gali būti ištrintas veikiant *MatLab* programai, nes nuo jo nepriklauso pačio algoritmo veikimas:

```
„ function KodasT11MatLab10kW20160811()
D = csvread('2016.08.11 T-11 10kW.csv', 1, 1);
[p1, ~] = size(D);
%norm_data = D algoritmo eilutė nurodo, kurios T-21 25 kW savų reikmių
%transformatoriaus parametru reikšmės yra įtraukiamos į Sammon algoritmo
%vizualizavimą. Čia kiekvienas skaičius nurodo matuojamojo parametro reikšmę ir
%matavimo vienetą (žr. Lentelė Nr.3.2.1).
norm_data = D(:,
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29]);
norm_data = zscore(norm_data);
options = sammon;
options.MaxIter = 20;
options.Initialisation = 'pca';
data = sammon(norm_data, 3, options);
plot_scatter(1, p1, 1, data, 'T-11 10kW 2016-08-11');
function plot_scatter(fignum, X, Y, data, titlez)
Y = X + Y;
figure(fignum);
```

```
hold on;  
scatter3(data(1:X,1), data(1:X,2), data(1:X,3), 5, 'r');  
title(titlez);  
drawnow;  
grid;  
hold off;  
return; “
```

Vizualizavimo kodu gautas daugiamačių taškų atvaizdavimas dvimatėje plokštumoje (žr. Pav. Nr.3.2.3):



3.2.3 Pav. T-11 10 kW duomenų atvaizdavimas dvimatėje plokštumoje pasinaudojus *Sammon* algoritmu

Iš gautų T-11 10 kW transformatoriaus duomenų vizualizavimo dvimatėje plokštumoje matoma, kad didžioji dalis atvaizduotų taškų koncentruojasi šalia vienas kito, pagrindinėje susikoncentravimo vietoje, kuri yra pažymėta juoda rodykline linija (nubrėžta papildomai) „debesies“ pavidalu. Tuo tarpu kita mažesnioji dalis taškų koncentruojasi mažesnio dydžio „debesies“ pavidalu, pažymėta mėlyna rodykline linija (nubrėžta papildomai). Likę pavieniai išsibarstę taškai, nesukeliantys jokių nepageidaujamų veiksnių, susiformuoja dėl vykstančių pereinamųjų procesų elektros tinkle ar pačiame savų reikmių transformatoriuje.

Mažesnio dydžio „debesis“ yra gan žymiai nutolęs nuo pagrindinės taškų susikoncentravimo vietos, kuris atspindi avarinį savų reikmių transformatoriaus darbo režimą. Dirbant tokiu režimu, savų reikmių transformatorius turi būti nedelsiant atjungiamas nuo tinklo, kad nesukeltų didesnių elektros tinklo ir įrenginių gedimų bei neleistinų elektros kokybės parametrų nukrypimų. Atjungus įrenginį jis turi būti išsamiai patikrintas, išbandytas ir atliktas reikiamas remontas, kad būtų atkurtos reikalaujamos charakteristikos ir parametrai. Jei to padaryti nebeįmanoma, savų reikmių transformatorius turi būti pakeistas nauju, o jo duomenys debesų kompiuterijoje, vietoj senojo transformatoriaus, kaupiami iš naujo. Šie nauji duomenys negali būti įrašomi ant senojo transformatoriaus duomenų, nes praktiškai neįmanoma pastatyti identiško transformatoriaus su tokiais pat parametrais, o tokia situacija gali sukelti didelius neatitikimus vizualiai analizuojant gaunamus rezultatus bei priimant tolimesnius sprendimus.

3.2.5 Savų reikmių transformatorių duomenų vizualizavimo palyginimas

Siekiant dar lengviau ir greičiau suprasti vizualiai gautus duomenis, savų reikmių transformatorių T-11, T-21 ir T-22 daugiamačius parametrus galima atvaizduoti vienoje dvimatėje plokštumoje. Tai leistų patogiai stebėti daugiau elektros sistemos įrenginių ar objektų vienu metu ir pereiti į vieno įrenginio stebėjimą tik atsiradus neleistinam parametrų nukrypimui nuo normų.

Analogiškai pasinaudojus priedo Nr.1 pateikta programa, parašytas trijų savų reikmių transformatorių T-11, T-21 ir T-22 nuskaitytų duomenų vizualizavimo kodas („ “), kuriame žalios spalvos tekstas su grotelėmis nurodo *Sammon* algoritmo komentarus ir jo veikimo paaiškinimus bei gali būti ištrintas veikiant *MatLab* programai, nes nuo jo nepriklauso pačio algoritmo veikimas:

```
„ function Palyginimas()  
D = csvread('2016.08.11 T-11 10kW.csv', 1, 1);  
[p1, ~] = size(D);
```

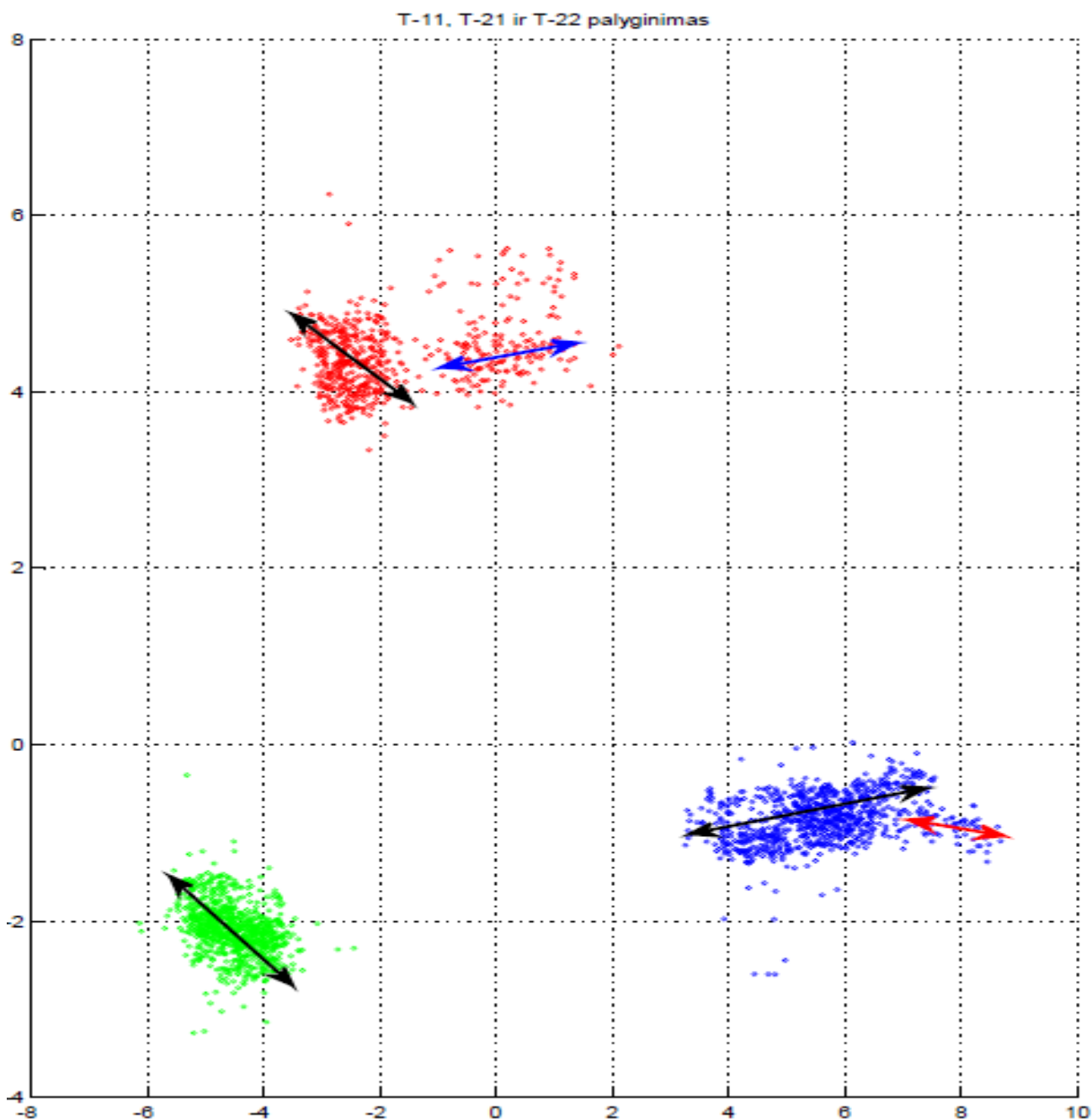
%norm_data = D algoritmo eilutė nurodo, kurios T-21 25 kW savų reikmių
%transformatoriaus parametrų reikšmės yra įtraukiamos į *Sammon* algoritmo
%vizualizavimą. Čia kiekvienas skaičius nurodo matuojamojo parametro reikšmę ir
%matavimo vienetą (žr. Lentelė Nr.3.2.1).

```
norm_data = D(:,  
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29]);  
D = csvread('2016.08.15 T-21 25kW.csv', 1, 1);  
[p2, ~] = size(D);  
% Analogiškai pasirenkamos matuojamųjų parametrų reikšmės.  
norm_data = [norm_data; D(:,  
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29])];  
D = csvread('2016.08.15 T-22 50kW.csv', 1, 1);  
[p3, ~] = size(D);  
% Analogiškai pasirenkamos matuojamųjų parametrų reikšmės.  
norm_data = [norm_data; D(:,  
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29])];  
norm_data = zscore(norm_data);  
options = sammon;  
options.MaxIter = 3;  
options.Initialisation = 'pca';  
data = sammon(norm_data, 3, options);  
plot_scatter(1, p1, p2, p3, data, 'T-11, T-21 ir T-22 palyginimas');
```

```
function plot_scatter(fignum, X, Y, Z, data, titlez)  
Y = X + Y;  
Z = Y + Z;  
figure(fignum); hold on;  
scatter3(data(1:X,1), data(1:X,2), data(1:X,3), 5, 'r');  
scatter3(data(X+1:Y,1), data(X+1:Y,2), data(X+1:Y,3), 5, 'g');  
scatter3(data(Y+1:Z,1), data(Y+1:Z,2), data(Y+1:Z,3), 5, 'b');  
title(titlez);  
drawnow;  
grid;  
hold off;  
return;
```

“

Vizualizavimo kodu gautas daugiamačių taškų atvaizdavimas dvimatėje plokštumoje (žr. Pav. Nr.3.2.4):



3.2.4 Pav. Savų reikmių transformatorių duomenų atvaizdavimas dvimatėje plokštumoje pasinaudojus *Sammon* algoritmu

Dvimatėje plokštumoje raudoni taškai vaizduoja T-11, žali – T-21, o mėlyni – T-22 savų reikmių transformatorių daugiamačius duomenis. Toks duomenų palyginimas labiau išryškina transformatorių normalaus darbo režimo skirtumą nuo priešavarinių ir avarinių režimų.

Kaip matoma iš gauto paveikslo (žr. 3.2.4 Pav.) atvaizduotų taškų išsidėstymo modelis atitinka prieš tai gautų paveikslų (žr. 3.2.1 Pav.; 3.2.2 Pav.; 3.2.3 Pav.) atvaizduotų taškų išsidėstymo formas. Skiriasi tik jų atvaizdavimo pasukimas išlaikant ekvivalenčias projekcijas

įvairiose plokštumos vietose nepriklausomai nuo duomenų tipo. Visos rodyklinės linijos nubrėžtos papildomai.

Raudona rodyklinė linija vaizduoja priešavarinį T-21 savų reikmių transformatoriaus darbo režimą, kur pradeda formuotis nedidelis „debesis“ netoli pagrindinės taškų susikontcentravimo vietos. Tuo tarpu mėlyna rodyklinė linija vaizduoja avarinį T-11 savų reikmių transformatoriaus darbo režimą, kur pradeda formuotis didesnis „debesis“ žymiai labiau nutolęs nuo pagrindinės taškų susikontcentravimo vietos. Pastebėjus priešavarinį ar avarinį transformatoriaus darbo režimą, pereinama į šio vieno transformatoriaus vizualizuotų duomenų analizavimą priimant atitinkamas išvadas. Tuo tarpu T-22 savų reikmių transformatorius dirba normaliu darbo režimu ir visi daugiamačiai taškai formuojasi pagrindinėje taškų susikontcentravimo vietoje.

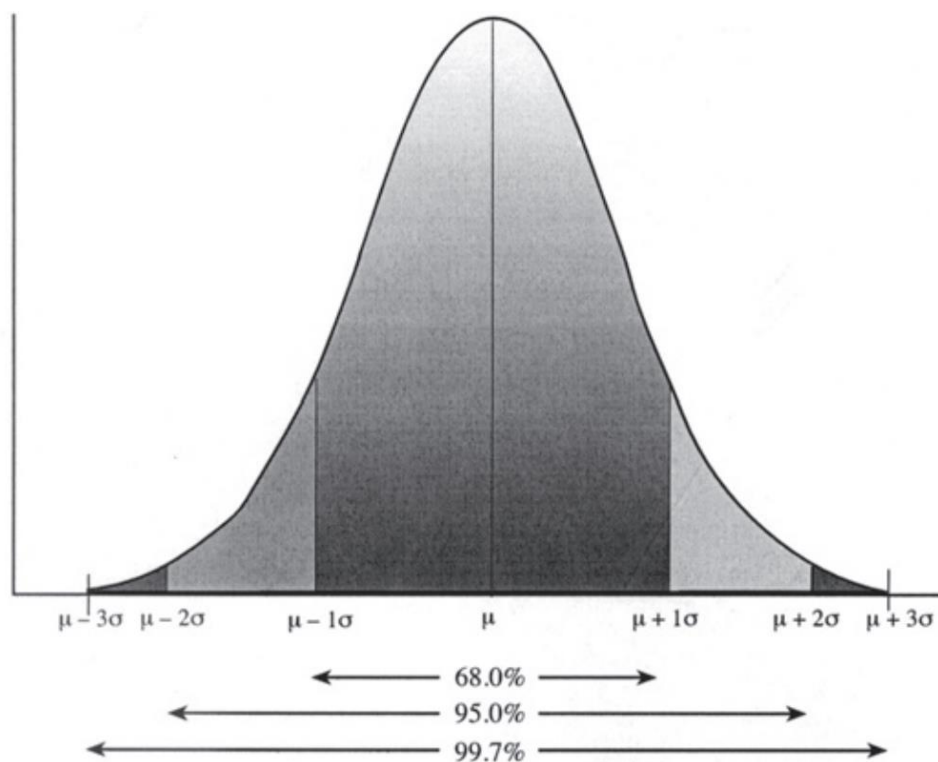
4. MATEMATINIS MODELIS DUOMENŲ ANALIZEI

4.1 Normalusis (Gauso) skirstinys

Normalusis (Gauso) skirstinys – tai tolydžiųjų požymių reikšmių skirstinys (pasiskirstymo dėsnis), žymimas $N(\mu_x; \sigma_x)$ bei apibūdinamas tam tikromis savybėmis. Pirmiausia, nagrinėjamų reikšmių vidurkio (μ), modos ir medianos reikšmės visada sutampa bei gauta tikimybių pasiskirstymo kreivė yra simetriška, kai simetrijos ašis gaunama ties vidurkiu. Taip pat skirstinio kreivės forma priklauso nuo dviejų dydžių – aritmetinio vidurkio (μ) ir standartinio nuokrypio (σ). Aritmetinis vidurkis apsprendžia ties kuria x reikšme bus susitelkęs pats didžiausias galimos tikimybės tankis, o standartinis nuokrypis nulemia pasiskirstymo kreivės aukštį ir jos suglaustumo laipsnį. Galiausiai pagal normalųjį skirstinį išsibarstę atsitiktinių dydžių suma taip pat yra dydis, išsibarstęs pagal normalųjį skirstinį.

Normalusis skirstinys turi vadinamąjį trijų sigmų taisyklę, teigiančią, kad jei atsitiktinis dydis X pasiskirstęs pagal normalųjį dėsnį, tai jo galimos reikšmės nuo vidurkio gali nutolti ne toliau kaip per 3 standartinius nuokrypius (3σ):

- 1) Atsitiktinio dydžio tikimybė patekti į intervalą nuo $\mu - \sigma$ iki $\mu + \sigma$ yra lygi 68%;
- 2) Atsitiktinio dydžio tikimybė patekti į intervalą nuo $\mu - 2\sigma$ iki $\mu + 2\sigma$ yra lygi 95%;
- 3) Atsitiktinio dydžio tikimybė patekti į intervalą nuo $\mu - 3\sigma$ iki $\mu + 3\sigma$ yra lygi 99,7%;



4.1.1 Pav. Normalusis (Gauso) skirstinys

Iš paveikslo (4.1.1 Pav.) matoma, kad beveik visas plotas esantis po normaliaja kreive yra trijų standartinių nuokrypių nuo centro ribose. Jeigu nagrinėjamos reikšmės skirstinys normalus, tai praktiškai visos nagrinėjamos reikšmės yra ne daugiau kaip 3σ atstumu nutolusios nuo centro.

Normaliojo skirstinio kreivė sudaroma pagal tikimybių tankio funkciją:

$$f(x; \mu, \sigma) = \frac{1}{\sigma\sqrt{2\pi}} \exp\left(-\frac{(x_i - \mu)^2}{2\sigma^2}\right) \quad (4.1.1)$$

Aritmetinis vidurkis (μ), nurodantis vidutinę reikšmę, aplink kurią išsidėsčiusi aibė, apskaičiuojamas:

$$\mu = \frac{1}{n} \sum_{j=1}^n x_i \quad (4.1.2)$$

Standartinis nuokrypis (σ), nusakantis atsitiktinio dydžio įgyjamų reikšmių sklaidą apie vidurkį, apskaičiuojamas:

$$\sigma = \sqrt{\frac{1}{n} \sum_{i=1}^n (x_i - \mu)^2} \quad (4.1.3)$$

Kur: x_i – nagrinėjamosios reikšmės kintamieji; n – kintamųjų kiekis.

4.2 Matematinio modelio sudarymas

Plačioje elektros energetikos sistemoje ne visada yra patogų ar praktiška naudoti sukaupytų duomenų vizualizavimą *Sammon* algoritmu siekiant įvertinti įrenginių ar objektų būklę. Tai labai gali priklausyti nuo stebimo įrenginio ar objekto pobūdžio, struktūros bei galimų matuojamųjų reikšmių kiekio. Taip pat pastebėjus priešvarinius ar avarinius režimus bei norint pereiti į detalesnį įrenginio analizavimą, kai reikalinga įvertinti bei surasti tik vieno ar kelių matuojamųjų parametrų kitimą ir jų nuokrypius nuo leistinų ribų.

Panaudojus normalųjį (Gauso) skirstinį galima sukurti matematinį modelį *MatLab* programos paketu, kuris sudarytų tikimybių pasiskirstymo kreivę pagal nagrinėjamosios reikšmės kintamuosius nepriklausomai nuo jų kiekio. Šis normalusis skirstinys turi būti suformuotas tik iš nagrinėjamosios reikšmės kintamųjų, kurie yra gaunami įrenginiui ar objektui dirbant normaliu darbo režimu. Visi kiti kintamieji gauti ne normaliu darbo režimu turi būti pašalinti iš duomenų tam, kad būtų nubrėžtas kuo tikslesnis normaliojo skirstinio grafikas su

mažiausia duomenų iškraipymo paklaida. Kitu atveju gaunamas nesimetriškas ir netikslus normalusis (Gauso) skirstinys, kuriuo vadovautis nagrinėjant statistinius duomenis yra netikslinga.

Sudarytąjį normalųjį (Gauso) skirstinį iš įrenginio ar objekto parametrų, kurie surinkti tik jam veikiant normaliu darbo režimu, galima naudoti kaip etaloną, nustatant priešavarinius ar avarinius darbo režimus:

- Visi matuojamojo parametro kintamieji, kurie patenka į intervalą nuo $\mu - \sigma$ iki $\mu + \sigma$ nurodo, kad įrenginys ar objektas dirba normaliu darbo režimu ir nėra jokių nukrypimų nuo leistinų parametrų ribų. Įrenginio ar objekto veikla nėra stabdoma.
- Matuojamojo parametro kintamieji, kurie patenka į intervalą nuo $\sigma - 2\sigma$ iki $\sigma + 2\sigma$ nurodo, kad įrenginys ar objektas dirba šiek tiek nutolęs nuo normaliojo darbo režimo, bet nėra jokių nukrypimų nuo leistinų parametrų ribų. Įrenginio ar objekto veikla nėra stabdoma.
- Esant pavieniams matuojamojo parametro kintamiesiems, kurie patenka į intervalą nuo $2\sigma - 3\sigma$ iki $2\sigma + 3\sigma$ nurodo, kad įrenginyje ar objekte vyksta pereinamieji procesai, kurie sukelia trumpus parametrų nukrypimus nuo leistinų ribų. Šios sąlygos nesukelia pavojingų situacijų ir įrenginio ar objekto veikla nėra stabdoma.
- Esant didesniai matuojamojo parametro kintamųjų skaičiui, kurie patenka į intervalą nuo $2\sigma - 3\sigma$ iki $2\sigma + 3\sigma$ nurodo, kad įrenginys ar objektas dirba priešavariniu darbo režimu. Atsiranda parametrų nukrypimai nuo leistinų ribų, kurie per tam tikrą laiko tarpą gali sukelti įrenginio ar objekto negrįžtamų pažeidimų ar net rimtų gedimų pereinant į avarinį darbo režimą. Įrenginys ar objektas turi būti apžiūrėtas bei patikrintas ir esant būtinybei nedelsiant stabdomas.
- Matuojamojo parametro kintamieji, kurie nepatenka į intervalą nuo $\mu - 3\sigma$ iki $\mu + 3\sigma$ nurodo, kad įrenginys ar objektas dirba avariniu darbo režimu. Toks darbo režimas turi būti kuo skubiau nutrauktas, nes tai gali sukelti milžiniškus gedimus ir avarijas elektros sistemos tinkle. Įrenginys ar objektas gali būti vėl įjungiamas į tinklą tik po nuodugnios įrenginio ar objekto apžiūros, specialių bandymų ir atliktų remonto darbų. Jei to padaryti nebėra galimybės, įrenginys ar objektas turi būti keičiamas nauju.

4.2.1 Savų reikmių transformatorių normaliojo skirstinio sudarymas

Normalieji (Gauso) skirstiniai savų reikmių transformatoriams T-11, T-21 ir T-22 sudaromi pasirinktinai naudojant fazinių įtampų (žr. Lentelė Nr.3.2.1, Eil.Nr.7) reikšmes, kurios yra paimtos iš trečio skyriaus matavimo metu gautų duomenų. Dėl didelio duomenų kiekio priede pateikiama tik dalis išrinktų duomenų (žr. Priedas Nr.5). Pilnas nuskaitytas duomenų sąrašas pateikiamas kompaktiniame diske (žr. CD/Priedas Nr.5 Fazinių įtampų duomenys).

Pasinaudojus *MatLab* programiniu paketu, parašytas T-11, T-21 ir T-22 savų reikmių transformatorių matematinio modelio vizualizavimo kodas, apskaičiuojantis pasirinkto kintamojo reikšmių aritmetinį vidurkį, standartinę nuokrypį ir nubrėžiantis normaliojo skirstinio grafiką („“, “). Žalios spalvos tekstas su grotelėmis nurodo algoritmo komentarus ir jo veikimo paaiškinimus bei gali būti ištrintas veikiant *MatLab* programai, nes nuo jo nepriklauso pačio algoritmo veikimas:

```
„      %filename = algoritmo eilutė nurodo CD kompaktiniame diske esančio Normaliojo
      %(Gauso) skirstinio matematinio modelio vizualizavimo kodo failo vardą,
      naudojama MatLab programos paketo.
      filename = 'Normalusis skirstinys.xlsx';
      %x10f = xlsread algoritmo eilutė nurodo Microsoft Excel programos failo
      %pavadinimą, iš kurio yra paimami savų reikmių transformatorių fazinių įtampų
      %nuskaityti duomenys. Tam, kad Normaliojo (Gauso) skirstinio kodas veiktų
      %teisingai, Microsoft Excel failas turi būti sukurtas xls formatu. Taip pat visi failai
      %skirti vizualizavimui turi būti patalpinti viename folderyje.
      x10Uf = xlsread(filename,'A:A');
      x25Uf = xlsread(filename,'B:B')
      x50Uf = xlsread(filename,'C:C')
      %M10Uf = mean algoritmo eilutė apskaičiuoja pasirinktos reikšmės aritmetinį
      %vidurkį.
      M10Uf=mean(x10Uf);
      %disp(M10Uf) algoritmo eilutė atvaizduoja gautą pasirinktos reikšmės aritmetinį
      %vidurkį MatLab programos ekrane.
      disp(M10Uf);
      M25Uf=mean(x25Uf);
      disp(M25Uf);
      M50Uf=mean(x50Uf);
      disp(M50Uf);
```

```

%S10Uf = std algoritmo eilutė apskaičiuoja pasirinktos reikšmės standartinį
%nuokrypį.
S10Uf=std(x10Uf);
%disp(S10Uf) algoritmo eilutė atvaizduoja gautą pasirinktos reikšmės standartinį
%nuokrypį MatLab programos ekrane.
disp(S10Uf);
S25Uf=std(x25Uf);
disp(S25Uf);
S50Uf=std(x50Uf);
disp(S50Uf);
%norm10Uf = normpdf algoritmo eilutė apskaičiuoja normaliojo skirstinio vertes
%pasirinktai reikšmei
norm10Uf = normpdf(x10Uf,M10Uf,S10Uf);
%fidure; plot algoritmo eilutė sudaro normaliojo skirstinio grafiką pasirinktai
%reikšmei.
figure; plot(x10Uf,norm10Uf),grid
%title algoritmo eilutė nusako sudaromo grafiko pavadinimą.
title('T-11 10kW Fazinė įtampa A-N, V');
%xlabel algoritmo eilutė nusako grafiko x ašies pavadinimą.
xlabel('Įtampa, V');
%ylabel algoritmo eilutė nusako grafiko y ašies pavadinimą.
ylabel('Tikimybė');
norm25Uf = normpdf(x25Uf,M25Uf,S25Uf);
figure; plot(x25Uf,norm25Uf),grid
title('T-21 25kW Fazinė įtampa A-N, V');
xlabel('Įtampa, V');
ylabel('Tikimybė');
norm50Uf = normpdf(x50Uf,M50Uf,S50Uf);
figure; plot(x50Uf,norm50Uf),grid
title('T-22 50kW Fazinė įtampa A-N, V');
xlabel('Įtampa, V');
ylabel('Tikimybė');

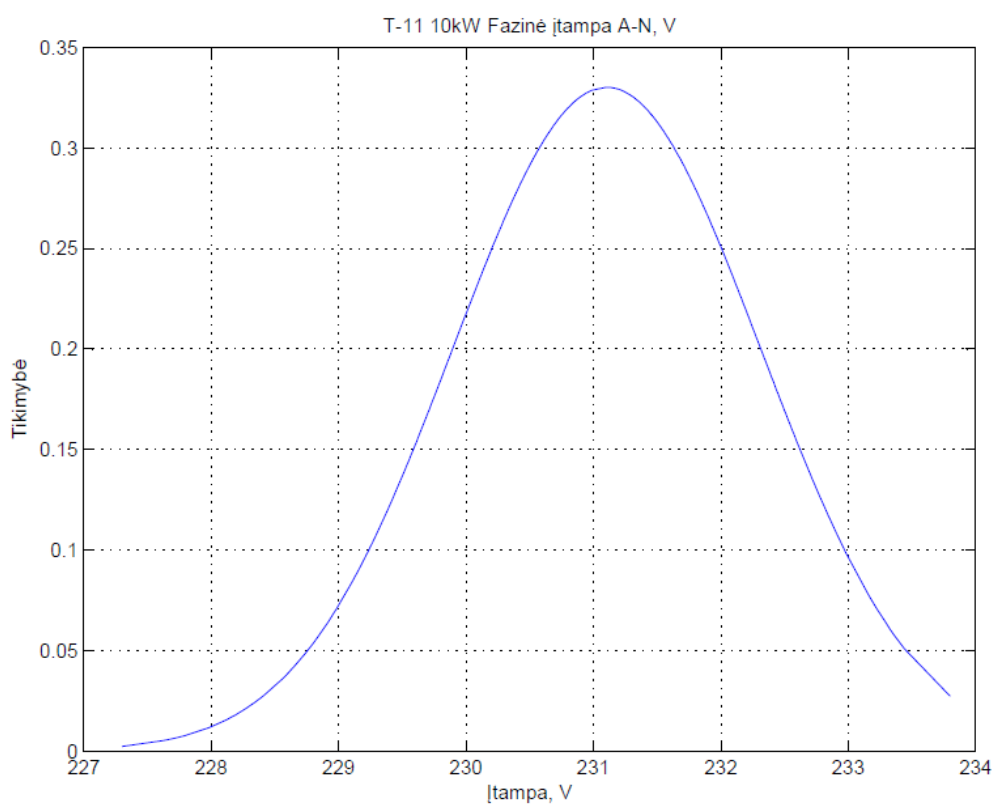
```

Matematinio modelio kodu gauti savų reikmių transformatorių fazinių įtampų vidurkiai bei standartiniai nuokrypiai:

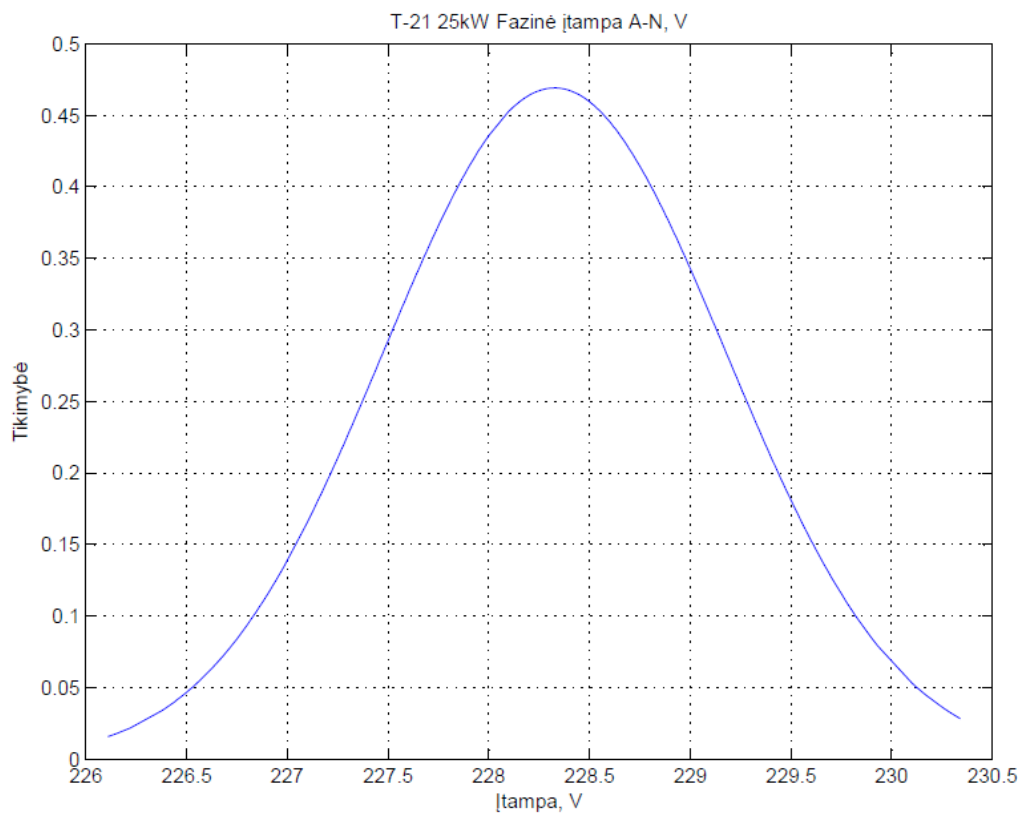
Lentelė Nr.4.2.1 Matematinio modelio kodu gautų aritmetinių vidurkių ir standartinių nuokrypių vertės

Savų reikmių transformatorius	Aritmetinis vidurkis, μ	Standartinis nuokrypis, σ
T-11 10 kW	231,105 V	1,208 V
T-21 25 kW	228,327 V	0,85 V
T-22 50 kW	219,232 V	1,483 V

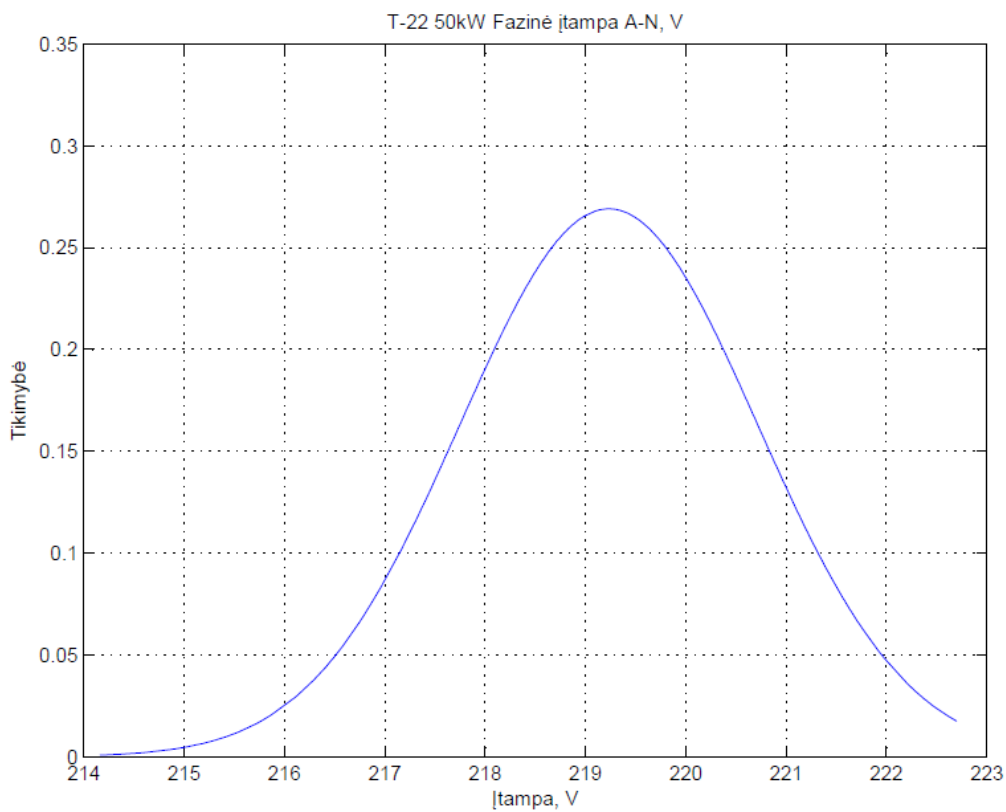
Matematinio modelio kodu gauti savų reikmių transformatorių fazinių įtampų normalieji (Gauso) skirstiniai:



4.2.1 Pav. T-11 10 kW savų reikmių transformatoriaus normalusis (Gauso) skirstinys



4.2.2 Pav. T-21 25 kW savų reikmių transformatoriaus normalusis (Gauso) skirstinys



4.2.3 Pav. T-22 50 kW savų reikmių transformatoriaus normalusis (Gauso) skirstinys

Iš gautų normaliųjų (Gauso) skirstinių matoma, kad taisyklingiausios formos kreivė nubrėžiama iš T-21 25 kW savų reikmių transformatoriaus fazinių įtampų duomenų, nes transformatorius beveik visą matavimo laiką dirba normaliu darbo režimu ir tik nedidelis duomenų kiekis gaunamas pereinamųjų procesų metu. Kuo gautas duomenų kiekis, vykstant pereinamiesiems procesams, yra didesnis, tuo labiau iškraipomas normaliojo skirstinio grafikas. Dėl šios priežasties sudarant „etaloninį“ normalųjį skirstinį, pagal kurį būtų lyginamos tolimesnės gaunamos reikšmės, iš viso duomenų sąrašo turi būti išimti duomenys gauti pereinamųjų procesų metu.

T-21 25 kW savų reikmių transformatoriaus apskaičiuota fazinės įtampos aritmetinio vidurkio vertė siekia 228,327 V, o standartinis nuokrypis 0,85 V. Vadinas, didžiausias duomenų kiekis (95%), gaunamas iš savų reikmių transformatoriaus, patenka į intervalą nuo $\mu - 2\sigma$ iki $\mu + 2\sigma$ (nuo 226,627 V iki 230,027 V). Šiame diapozone gaunamos fazinių įtampų vertės suprantamos kaip duomenys nuskaitomi normaliu savų reikmių transformatoriaus darbo režimu. Mažoji dalis (2,7%) fazinių įtampų verčių, kurios gaunamos diapozone nuo $\mu - 3\sigma$ iki $\mu - 2\sigma$ bei nuo $\mu + 3\sigma$ iki $\mu + 2\sigma$ (nuo 225,777 V iki 226,627 V bei nuo 230,027 V iki 230,877 V) suprantamos kaip duomenys nuskaitomi pereinamųjų procesų metu. Jei šių duomenų kiekis procentaliai padidėja, galima daryti išvadą, kad savų reikmių transformatorius perėjo į priešavarinį ar net avarinį darbo režimą ir reikia imtis atitinkamų priemonių, siekiant nesugadinti pačio įrenginio ar nesutrikdyti elektros sistemos darbo. Visos kitos fazinių įtampų vertės, kurios nepatenka į diapazoną nuo $\mu - 3\sigma$ iki $\mu + 3\sigma$ (nuo 225,777 V iki 230,877 V) suprantamos kaip duomenys nuskaitomi priešavariniu ar avariniu savų reikmių transformatoriaus darbo režimu, priklausomai nuo vertės dydžio. Siekiant kuo tiksliau nustatyti diapazonų ribas, duomenų sąrašė turi būti kuo mažiau parametrų gautų pereinamųjų procesų metu ir išvis turi nebūti parametrų nuskaitytų priešavariniu ir avariniu darbo režimu.

Tuo tarpu gautuose T-11 10 kW ir T-22 50 kW savų reikmių transformatorių normaliuose skirstiniuose matomas ryškesnis grafiko iškraipymas bei pasireiškia tikimybinės pasiskirstymo kreivės nesimetriškumas ir jos viršūnės aukščio sumažėjimas. Taip pat padidėja nagrinėjamojo kintamojo, šiuo atveju fazinės įtampos, verčių skirtumas tarp minimalios ir maksimalios reikšmės bei padidėja normalusis nuokrypis σ (žr. Lentelė Nr.4.2.1). Dėl šių priežasčių nubrėžti normalieji skirstiniai negali būti laikomi „etaloniniais“ skirstiniais, pagal kuriuos būtų lyginamos tolimesnės gaunamos reikšmės, nes jie būtų sudaryti iš duomenų, kuriuose didelę dalį sudaro priešavariniu ir avariniu režimu gauti parametrai. Tai savo ruožtu sukeltų rimtų neatitikimų tolimesniuose gaunamų duomenų palyginime bei detalioje analizėje.

Atitinkamai apskaičiuotas T-11 10 kW savų reikmių transformatoriaus fazinės įtampos aritmetinio vidurkio (231,105 V) ir standartinio nuokrypio (1,208 V) bei T-22 50 kW

aritmetinio vidurkio (219,232 V) ir standartinio nuokrypio (1,483 V) reikšmes negalime laikyti tiksliais nustatant diapazonų ribas. Siekiant nustatyti tiksliai diapazono ribas, turi būti sudaryti nauji normalieji skirstiniai, iš duomenų surinktų savų reikmių transformatoriams dirbant tik normaliu darbo režimu.

IŠVADOS

Šiame baigiamajame magistro projekte duomenims surinkti, perduoti bei kaupti yra taikomas technologinis sprendimas – debesų kompiuterijos technologija su NoSQL duomenų bazės valdymo sistema. Debesų kompiuterijos technologijos pasirinkimą lėmė jos esami privalumai tokie kaip: plati tinklo prieiga, išteklių telkimas, savarankiškai vykdomos paslaugos, didelis lankstumas ir plėtra, paprastai matuojamos paslaugos bei aukštas duomenų apsaugos lygis. Elektros energetikos sistemoje iš galimų nagrinėjamos technologijos išsidėstymo modelių (privati, bendruomenės, viešoji ir hibridinė infrastruktūra) būtų naudojamas hibridinis debesų infrastruktūros modelis, susidedantis iš dviejų ar net daugiau infrastruktūros tipų. Kas atitinkamai leistų patalpinti duomenis privačiuose debesyse su aukščiausiais keliamais duomenų saugumo reikalavimais ir prisijungti prie jų per viešąjį debesų tinklą (internetą) naudojant specialiai tam pritaikytas programines įrangas.

Išanalizavus *Sammon* algoritmą bei pasinaudojus *MatLab* programiniu paketu, parašyti trijų savų reikmių transformatorių (T-11 10 kW, T-21 25 kW ir T-22 50 kW), matavimo metu gautų duomenų, sudarytų iš 30-ties skirtingų parametrų, keturi vizualizavimo kodai, kurių paskirtis nustatyti įrenginio darbo režimus. Gauti rezultatai:

- Iš gautų T-21 25 kW savų reikmių transformatoriaus duomenų vizualizavimo dvimatėje plokštumoje rezultatų nustatyta, kad įrenginys didžiąją laiko dalį dirba normaliu darbo režimu (atvaizduoti taškai koncentruojasi vienoje vietoje) ir tik nedidelis duomenų kiekis gautas vykstant pereinamiesiems procesams (atvaizduoti pavieniais taškais).
- Iš gauto T-22 25 kW vizualizavimo dvimatėje plokštumoje rezultato nustatyta, kad įrenginys daugiausia dirba normaliu darbo režimu, tačiau atsiranda ir priešavarinio darbo režimo parametrų, kurie dvimatėje plokštumoje koncentruojasi toliau nuo pagrindinės taškų susikongravimo vietos.
- Iš gauto T-11 10 kW vizualizavimo dvimatėje plokštumoje rezultato nustatyta, kad įrenginys daugiausia dirba normaliu darbo režimu, tačiau atsiranda ir didelė dalis avarinio darbo režimo parametrų, kurie dvimatėje plokštumoje koncentruojasi žymiai toliau nuo pagrindinės taškų susikongravimo vietos.
- Siekiant vizualiai geriau atskirti ir palyginti įrenginių darbo režimus, ketvirtasis vizualizavimo kodas atvaizduoja visų trijų savų reikmių transformatorių duomenis vienoje dvimatėje plokštumoje. Iš gauto rezultato matomas T-11 10 kW transformatoriaus avarinis darbo režimas, kurio atvaizduoti taškai yra gan nutolę nuo pagrindinės taškų susikongravimo vietos. T-22 kW transformatoriaus priešavarinio darbo režimo atvaizduoti taškai koncentruojasi netoli pagrindinės susikongravimo vietos.

Taip pat pasinaudojus *MatLab* programiniu paketu, parašytas trijų savų reikmių transformatorių (T-11 10 kW, T-21 25 kW ir T-22 50 kW), pagal pasirinktas fazinių įtampų vertes (A-N), vizualizavimo kodas, apskaičiuojantis parametrų aritmetinius vidurkius ir standartinius nuokrypius bei sudarantis normaliuosius (Gauso) skirstinius. Iš gautų rezultatų nustatyta, kad taisyklingiausios formos tikimybinė kreivė suformuota iš T-21 kW savų reikmių transformatoriaus fazinių įtampų, nes duomenys yra gauti įrenginiui beveik visą laiką dirbant normaliu darbo režimu. Nedidelis kreivės nesimetriškumas gautas dėl labai mažos dalies duomenų, gautų pereinamųjų procesų metu. Šio transformatoriaus apskaičiuotos fazinės įtampos aritmetinis vidurkis siekia 228,327 V, o standartinis nuokrypis 0,85 V, iš kurių sudarytos diapazonų verčių ribos, nusakančios atitinkamą įrenginio darbo režimą. Iš gautų T-22 50 kW ir T-11 10 kW transformatorių rezultatų negalima daryti jokių tikslų išvadų apie įrenginių darbo režimus, nes gauti normalieji (Gauso) skirstiniai yra per daug iškraipyti ir nesimetriški. Didelis grafiko iškraipymas pasireiškia dėl gan didelio duomenų kiekio, nuskaitytų transformatoriams dirbant priešavariniu ir avariniu darbo režimais. Siekiant gauti kuo tikslesnius rezultatus naudojamame duomenų sąrašė turi būti palikti tik tie parametrai, kurie yra nuskaityti įrenginiams dirbant tik normaliu darbo režimu.

Magistrinio darbo metu gautais rezultatais galima pasinaudoti toliau nagrinėjant debesų kompiuterijos įdiegimą į elektros energetikos sistemą ar mažesnius elektros tinklus. Taip pat panaudojus kitokių didelių duomenų kiekių vizualizavimo metodus ir palyginus jų gautus rezultatus bei tikslumą, taip pritaikant geriausią ir efektyviausią vizualizavimo metodą kiekvienam atskiram atvejui.

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PRIEDAI

Priedas Nr.1

MatLab programa naudojamo Sammon algoritmo logikos pagrindas

```
function [y, E] = sammon(x, n, opts)
%SAMMON Performs Sammon's MDS mapping on dataset X
% Y = SAMMON(X) applies Sammon's nonlinear mapping procedure on
% multivariate data X, where each row represents a pattern and each column
% represents a feature. On completion, Y contains the corresponding
% co-ordinates of each point on the map. By default, a two-dimensional
% map is created. Note if X contains any duplicated rows, SAMMON will
% fail (ungracefully).
%
% [Y,E] = SAMMON(X) also returns the value of the cost function in E (i.e.
% the stress of the mapping).
%
% An N-dimensional output map is generated by Y = SAMMON(X,N) .
%
% A set of optimisation options can also be specified using a third
% argument, Y = SAMMON(X,N,OPTS) , where OPTS is a structure with fields:
%
%   MaxIter    - maximum number of iterations
%   TolFun     - relative tolerance on objective function
%   MaxHalves  - maximum number of step halvings
%   Input      - {'raw','distance'} if set to 'distance', X is
%               interpreted as a matrix of pairwise distances.
%   Display    - {'off', 'on', 'iter'}
%   Initialisation - {'pca', 'random'}
%
% The default options structure can be retrieved by calling SAMMON with
% no parameters.
%
% References :
%
%   [1] Sammon, John W. Jr., "A Nonlinear Mapping for Data Structure
%       Analysis", IEEE Transactions on Computers, vol. C-18, no. 5,
%       pp 401-409, May 1969.
%
% See also : SAMMON_TEST
%
% File      : sammon.m
%
% Date      : Monday 12th November 2007.
%
% Author    : Gavin C. Cawley and Nicola L. C. Talbot
%
% Description : Simple vectorised MATLAB implementation of Sammon's non-linear
%               mapping algorithm [1].
%
% References : [1] Sammon, John W. Jr., "A Nonlinear Mapping for Data
%               Structure Analysis", IEEE Transactions on Computers,
%               vol. C-18, no. 5, pp 401-409, May 1969.
```

```

%
% History   : 10/08/2004 - v1.00
%           11/08/2004 - v1.10 Hessian made positive semidefinite
%           13/08/2004 - v1.11 minor optimisation
%           12/11/2007 - v1.20 initialisation using the first n principal
%                       components.
%
% Thanks    : Dr Nick Hamilton (nick@maths.uq.edu.au) for supplying the
%           code for implementing initialisation using the first n
%           principal components (introduced in v1.20).
%
% To do     : The current version does not take advantage of the symmetry
%           of the distance matrix in order to allow for easy
%           vectorisation. This may not be a good choice for very large
%           datasets, so perhaps one day I'll get around to doing a MEX
%           version using the BLAS library etc. for very large datasets.
%
% Copyright : (c) Dr Gavin C. Cawley, November 2007.
%
% This program is free software; you can redistribute it and/or modify
% it under the terms of the GNU General Public License as published by
% the Free Software Foundation; either version 2 of the License, or
% (at your option) any later version.
%
% This program is distributed in the hope that it will be useful,
% but WITHOUT ANY WARRANTY; without even the implied warranty of
% MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
% GNU General Public License for more details.
%
% You should have received a copy of the GNU General Public License
% along with this program; if not, write to the Free Software
% Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
% This file is part of the Matlab Toolbox for Dimensionality Reduction.
% The toolbox can be obtained from http://homepage.tudelft.nl/19j49
% You are free to use, change, or redistribute this code in any way you
% want for non-commercial purposes. However, it is appreciated if you
% maintain the name of the original author.
%
% (C) Laurens van der Maaten, Delft University of Technology

% use the default options structure
if nargin < 3
    opts.Display      = 'iter';
    opts.Input        = 'raw';
    opts.MaxHalves    = 20;
    opts.MaxIter      = 500;
    opts.TolFun       = 1e-9;
    opts.Initialisation = 'random';

end

% the user has requested the default options structure

```

```

if nargin == 0
    y = opts;
    return;
end

% Create a two-dimensional map unless dimension is specified
if nargin < 2
    n = 2;
end

% Set level of verbosity
if strcmp(opts.Display, 'iter')
    display = 2;
elseif strcmp(opts.Display, 'on')
    display = 1;
else
    display = 0;
end

% Create distance matrix unless given by parameters
if strcmp(opts.Input, 'distance')
    D = x;
else
    D = euclid(x, x);
end

% Remaining initialisation
N = size(x, 1);
scale = 0.5 / sum(D(:));
D = D + eye(N);
Dinv = 1 ./ D;
if strcmp(opts.Initialisation, 'pca')
    [UU,DD] = svd(x);
    y = UU(:,1:n)*DD(1:n,1:n);
else
    y = randn(N, n);
end
one = ones(N,n);
d = euclid(y,y) + eye(N);
dinv = 1./d;
delta = D - d;
E = sum(sum((delta.^2).*Dinv));

% Get on with it
for i=1:opts.MaxIter

    % Compute gradient, Hessian and search direction (note it is actually
    % 1/4 of the gradient and Hessian, but the step size is just the ratio
    % of the gradient and the diagonal of the Hessian so it doesn't
    % matter).
    delta = dinv - Dinv;
    deltaone = delta * one;

```

```

g      = delta * y - y .* deltaone;
dinv3  = dinv .^ 3;
y2     = y .^ 2;
H      = dinv3 * y2 - deltaone - 2 * y .* (dinv3 * y) + y2 .* (dinv3 * one);
s      = -g(:) ./ abs(H(:));
y_old  = y;

% Use step-halving procedure to ensure progress is made
for j=1:opts.MaxHalves
    y(:) = y_old(:) + s;
    d    = euclid(y, y) + eye(N);
    dinv = 1 ./ d;
    delta = D - d;
    E_new = sum(sum((delta .^ 2) .* Dinv));
    if E_new < E
        break;
    else
        s = 0.5*s;
    end
end

% Bomb out if too many halving steps are required
if j == opts.MaxHalves
    warning('MaxHalves exceeded. Sammon mapping may not converge...');
end

% Evaluate termination criterion
if abs((E - E_new) / E) < opts.TolFun
    if display
        fprintf(1, 'Optimisation terminated - TolFun exceeded.\n');
    end
    break;
end

% Report progress
E = E_new;
if display > 1
    fprintf(1, 'epoch = %d : E = %12.10f\n', i, E * scale);
end

% Fiddle stress to match the original Sammon paper
E = E * scale;

function d = euclid(x, y)
    d = sqrt(sum(x.^2,2)*ones(1,size(y,1))+ones(size(x,1),1)*sum(y.^2,2)-2*(x*y'));
end

```


Priedas Nr.2

T-22 50 kW savų reikmių transformatoriaus matavimo metu gauti duomenys

Laikas,"Srovė fazė A, A","Srovė fazė B, A","Srovė fazė C, A","Įtampa A-B, V","Įtampa B-C, V","Įtampa C-A, V","Įtampa A-N, V","Įtampa B-N, V","Įtampa C-N, V","Aktyvioji galia fazė A, kW","Aktyvioji galia fazė B, kW","Aktyvioji galia fazė C, kW","Reaktyvioji galia fazė A, kVAr","Reaktyvioji galia fazė B, kVAr","Reaktyvioji galia fazė C, kVAr","Suminė galia fazė A, kVA","Suminė galia fazė B, kVA","Suminė galia fazė C, kVA","THD/thd Įtampos fazė A-N, %","THD/thd Įtampos fazė B-N, %","THD/thd Įtampos fazė C-N, %","THD/thd Įtampos fazė A-B, %","THD/thd Įtampos fazė B-C, %","THD/thd Įtampos fazė C-A, %","Bendra aktyvioji energija, kWh","Bendra reaktyvioji energija, kVArh","Suminė energija, kVAh","Apvijų temperatūra, °C","Alyvos temperatūra, °C","Aplinkos temperatūra, °C"

2016-08-15 14:40:00,309.89,317.38,285.45,381.71,379.63,376.92,216.97,217.94,222.56,60.33,60.16,56.59,38.97,42.74,38.35,71.82,73.8,68.36,0.93,0.81,0.84,0.93,0.81,0.84,7206.53,5126.15,8874.58,106.31,99.0,26.32
2016-08-15 14:40:05,308.14,315.37,285.94,382.62,380.78,378.33,217.94,218.45,223.06,55.72,55.26,52.09,37.49,41.13,36.8,67.16,68.89,63.78,0.98,0.83,0.84,0.98,0.83,0.84,7206.75,5126.31,8874.86,106.59,99.60,26.32
2016-08-15 14:40:10,304.65,311.75,282.53,382.84,381.378.6,218.14,218.56,223.17,54.72,54.17,51.06,37.19,40.84,36.48,66.16,67.84,62.75,0.95,0.79,0.81,0.95,0.79,0.81,7206.92,5126.42,8875.06,106.99,99.61,26.35
2016-08-15 14:40:15,302.69,309.76,280.51,382.41,380.59,378.12,217.9,218.33,222.87,54.46,53.93,50.77,37.07,40.78,36.38,65.88,67.61,62.46,0.96,0.81,0.83,0.96,0.81,0.83,7207.08,5126.53,8875.26,105.42,99.83,26.41
2016-08-15 14:40:20,301.76,309.21,279.8,382.35,380.57,378.07,217.87,218.31,222.85,54.33,53.81,50.65,37.02,40.75,36.37,65.74,67.5,62.35,0.94,0.77,0.84,0.94,0.77,0.84,7207.29,5126.69,8875.52,105.10,99.45,26.35
2016-08-15 14:40:25,289.19,296.52,266.32,382.49,380.89,378.48,218.14,218.49,222.89,52.47,51.69,48.36,35.01,39.11,34.42,63.08,64.82,59.36,0.95,0.79,0.84,0.95,0.79,0.84,7207.45,5126.8,8875.72,106.17,99.24,26.42
2016-08-15 14:40:30,289.08,296.49,266.23,382.48,380.77,378.38,218.12,218.46,222.81,52.45,51.63,48.31,35.39,1.34,37.63,65.04,64.76,59.28,0.98,0.82,0.88,0.98,0.82,0.88,7207.61,5126.91,8875.9,105.82,99.44,26.41
2016-08-15 14:40:35,288.82,296.13,265.89,382.57,380.98,378.59,218.2,218.54,222.94,52.33,51.49,48.22,35.02,39.11,34.39,62.97,64.66,59.23,0.95,0.79,0.87,0.95,0.79,0.87,7207.81,5127.05,8876.15,106.90,99.61,26.30
2016-08-15 14:40:40,287.64,295.08,265.1,382.68,381.05,378.66,218.26,218.6,222.97,52.51,22.47,93.34,96.39,04.34,38.62,66.64,4.58,99.0,96.0,79.0,87.0,96.0,79.0,87.0,7207.96,5127.16,8876.34,106.19,99.77,26.45
2016-08-15 14:40:45,250.94,257.92,232.67,385.75,384.53,382.06,220.42,220.74,224.37,45.89,45.45,42.54,28.28,31.88,28.08,53.9,55.52,50.97,0.98,0.81,0.88,0.98,0.81,0.88,7208.11,5127.27,8876.53,106.40,99.4,26.36
2016-08-15 14:40:50,245.17,252.23,227.77,385.67,384.49,381.96,220.35,220.74,224.33,46.06,45.64,42.7,28.24,31.89,28.06,54.02,55.68,51.09,0.96,0.83,0.84,0.96,0.83,0.84,7208.3,5127.4,8876.76,105.30,99.90,26.43
2016-08-15 14:40:55,246.4,253.34,228.56,385.83,384.58,382.09,220.44,220.8,224.4,48.36,48.12,45.2,30.27,33.65,30.02,57.05,58.72,54.26,0.99,0.85,0.86,0.99,0.85,0.86,7208.44,5127.49,8876.92,105.70,99.67,26.30
2016-08-15 14:41:00,260.36,267.21,243.78,384.9,383.46,380.82,219.67,220.2,223.86,48.06,47.88,45.08,30.22,33.5,29.92,56.77,58.43,54.11,0.97,0.83,0.86,0.97,0.83,0.86,7208.57,5127.57,8877.08,105.10,99.22,26.30
2016-08-15 14:41:05,261.22,268.2,243.89,384.87,383.41,380.76,219.64,220.2,223.81,48.71,48.48,45.59,30.32,33.72,30.03,57.38,59.06,54.59,0.97,0.81,0.86,0.97,0.81,0.86,7208.76,5127.7,8877.31,106.54,99.82,26.43
2016-08-15 14:41:10,267.01,274.1,249.57,384.55,382.98,380.3,219.32,219.99,223.65,49.35,49.23,46.28,30.49,33.86,30.24,58.01,59.75,55.28,0.99,0.82,0.89,0.99,0.82,0.89,7208.9,5127.8,8877.48,105.53,99.77,26.42
2016-08-15 14:41:15,229.6,236.43,214.43,386.98,385.9,383.37,221.31,221.55,224.94,43.07,42.78,40.12,26.49,29.8,26.36,50.56,52.14,48.01,0.98,0.83,0.88,0.98,0.83,0.88,7209.05,5127.89,8877.65,105.15,99.48,26.34
2016-08-15 14:41:20,226.76,233.65,211.93,387.38,386.34,383.8,221.59,221.79,225.16,42.55,42.25,39.62,26.48,29.79,26.34,50.11,51.69,47.58,0.95,0.81,0.87,0.95,0.81,0.87,7209.23,5128.8877.87,105.72,99.45,26.44
2016-08-15 14:41:25,224.68,231.63,209.77,387.46,386.37,383.85,221.66,221.81,225.16,42.15,41.81,39.18,26.41,29.72,26.24,49.74,51.29,47.15,0.97,0.81,0.86,0.97,0.81,0.86,7209.36,5128.09,8878.02,105.40,99.11,26.38
2016-08-15 14:41:30,223.75,230.67,208.97,387.56,386.52,383.99,221.73,221.89,225.23,42.41,67.39,08,26.43,29.71,26.26,49.62,51.18,47.08,1,0.85,0.91,1,0.85,0.91,7209.48,5128.17,8878.17,106.66,99.44,26.39
2016-08-15 14:41:35,223.59,230.24,208.75,387.4,386.24,383.8,221.65,221.76,225.08,41.95,41.59,39.02,26.38,29.62,26.17,49.56,51.06,46.98,0.98,0.82,0.88,0.98,0.82,0.88,7209.64,5128.28,8878.36,105.99,99.44,26.42
2016-08-15 14:41:40,223.46,230.07,208.78,387.51,386.42,383.96,221.71,221.85,225.18,41.89,41.55,39.02,26.42,29.64,26.24,49.52,51.04,47.02,0.97,0.81,0.87,0.97,0.81,0.87,7209.77,5128.36,8878.51,105.6,99.24,26.30
2016-08-15 14:41:45,223.55,230.42,208.99,387.58,386.48,384.02,221.77,221.86,225.22,41.96,41.64,39.04,26.41,29.67,26.25,49.57,51.13,47.05,0.93,0.8,0.85,0.93,0.8,0.85,7209.89,5128.44,8878.66,106.66,99.51,26.45
2016-08-15 14:41:50,223.71,230.67,209.18,387.59,386.49,384.02,221.77,221.87,225.22,42.41,7.39,1,26.41,29.67,26.28,49.61,51.18,47.11,1,0.85,0.89,1,0.85,0.89,7210.05,5128.55,8878.85,105.50,99.85,26.31
2016-08-15 14:41:55,237.59,244.67,224.28,386.55,385.12,382.54,220.9,221.16,224.57,43.72,43.71,41.24,28.39,31.26,28.18,52.13,53.74,49.95,0.94,0.79,0.86,0.94,0.79,0.86,7210.17,5128.63,8879.105.31,99.14,26.32

2016-08-15 14:42:00,261.69,268.99,246.4,384.28,382.52,380.02,219.34,219.51,223.53,49.72,49.12,46.4,34.42,37.89,33.82,60.47,62.03,57.42,0.92,0.78,0.84,0.92,0.78,0.84,7210.3,5128.72,8879.16,105.88,99.49,26.39
2016-08-15 14:42:05,271.3,278.6,253.07,384.65,382.92,380.43,219.65,219.7,223.71,48.33,47.74,45.02,34.25,37.74,33.72,59.23,60.85,56.25,0.94,0.81,0.86,0.94,0.81,0.86,7210.48,5128.85,8879.38,106.45,99.10,26.42
2016-08-15 14:42:10,268.32,276.09,250.72,384.72,383.1,380.58,219.7,219.77,223.82,48.4,47.94,45.15,34.24,37.78,33.84,59.28,61.04,56.42,0.94,0.78,0.84,0.94,0.78,0.84,7210.63,5128.95,8879.56,106.99,99.43,26.39
2016-08-15 14:42:15,272.11,279.86,254.07,384.74,383.14,380.48,219.59,219.85,223.83,49.08,48.69,45.82,34.32,37.9,33.97,59.89,61.7,57.04,0.96,0.8,0.83,0.96,0.8,0.83,7210.77,5129.06,8879.73,106.5,99.20,26.35
2016-08-15 14:42:20,273.85,281.67,255.65,384.67,382.99,380.37,219.54,219.77,223.77,49.35,48.92,46.04,34.34,37.93,33.95,60.12,61.9,57.21,0.94,0.79,0.83,0.94,0.79,0.83,7210.96,5129.2,8879.97,105.24,99.68,26.32
2016-08-15 14:42:25,274.13,281.9,256.04,384.68,383.1,380.44,219.54,219.82,223.82,49.46,49.02,46.16,34.38,37.96,33.98,60.24,62.57,31.0,0.94,0.79,0.86,0.94,0.79,0.86,7211.1,5129.31,8880.15,106.7,99.68,26.45
2016-08-15 14:42:30,274.63,282.38,256.28,384.51,382.89,380.28,219.45,219.7,223.73,49.55,49.11,46.25,34.32,37.9,33.93,60.27,62.03,57.36,0.96,0.83,0.86,0.96,0.83,0.86,7211.24,5129.41,8880.33,105.25,99.30,26.41
2016-08-15 14:42:35,274.93,282.36,256.52,384.64,382.95,380.42,219.55,219.74,223.77,49.61,49.11,46.3,34.39,37.92,33.93,60.36,62.05,57.4,0.95,0.82,0.85,0.95,0.82,0.85,7211.44,5129.55,8880.57,105.31,99.4,26.38
2016-08-15 14:42:40,275.1,282.44,256.88,384.44,382.84,380.27,219.41,219.69,223.69,49.65,49.18,46.4,34.39,37.9,33.95,60.4,62.09,57.49,0.95,0.82,0.86,0.95,0.82,0.86,7211.58,5129.66,8880.75,106.56,99.45,26.42
2016-08-15 14:42:45,267.57,274.89,248.85,384.99,383.65,381.12,220.02,220.15,223.88,47.79,47.03,44.12,32.41,36.32,32.05,57.74,59.42,54.54,0.93,0.82,0.87,0.93,0.82,0.87,7211.73,5129.77,8880.93,105.16,99.40,26.35
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2016-08-15 14:42:55,261.99,269.69,243.49,385.1,383.76,381.3,220.13,220.18,223.98,47.67,46.99,44.06,32.36,36.28,32.08,57.62,59.37,54.51,0.95,0.8,0.81,0.95,0.8,0.81,7212.06,5130,8881.33,105.70,99.43,26.34
2016-08-15 14:43:00,261.88,269.46,243.09,385.14,383.71,381.24,220.14,220.2,223.92,47.66,46.86,43.94,32.41,36.35,32.02,57.64,59.3,54.37,0.96,0.82,0.83,0.96,0.82,0.83,7212.19,5130.1,8881.51,105.45,99.17,26.40
2016-08-15 14:43:05,275.73,283.14,255.58,384.35,382.86,380.28,219.46,219.77,223.52,50.7,49.97,46.87,33.03,37.08,32.66,60.51,62.23,57.13,0.97,0.85,0.85,0.97,0.85,0.85,7212.38,5130.24,8881.73,105.44,99.72,26.39
2016-08-15 14:43:10,271.37,278.86,251.96,384.64,383.19,380.67,219.68,219.93,223.73,49.31,48.63,45.65,32.73,36.65,32.42,59.19,60.9,55.99,0.95,0.83,0.86,0.95,0.83,0.86,7212.52,5130.34,8881.91,105.58,99.48,26.36
2016-08-15 14:43:15,266.47,274.06,247.72,384.83,383.54,381.21,219.89,220.07,223.88,48.52,47.88,44.94,32.56,36.45,32.27,58.43,60.17,55.33,0.97,0.82,0.88,0.97,0.82,0.88,7212.67,5130.44,8882.09,105.61,99.49,26.42
2016-08-15 14:43:20,264.07,272.1,245.47,384.86,383.59,380.96,219.92,220.11,223.83,48.19,47.56,44.54,32.41,36.4,32.17,58.07,59.89,54.94,0.95,0.81,0.85,0.95,0.81,0.85,7212.86,5130.57,8882.32,106.73,99.75,26.31
2016-08-15 14:43:25,263.42,271.3,244.7,384.84,383.5,380.94,219.93,220.07,223.79,48.01,47.36,44.38,32.4,36.35,32.14,57.92,59.7,54.8,0.97,0.82,0.84,0.97,0.82,0.84,7213.1,5130.68,8882.49,105.92,99.7,26.43
2016-08-15 14:43:30,278.95,286.76,261.52,384.33,382.73,380.07,219.39,219.68,223.48,49.7,49.34,46.53,34.45,37.95,34.08,60.47,62.24,57.68,0.97,0.84,0.84,0.97,0.84,0.84,7213.14,5130.78,8882.67,106.70,99.42,26.34
2016-08-15 14:43:35,273.91,281.61,256.25,384.51,382.89,380.32,219.57,219.75,223.57,49.21,48.78,45.99,34.3,37.82,33.9,59.99,61.72,57.13,0.96,0.8,0.84,0.96,0.8,0.84,7213.33,5130.92,8882.91,105.62,99.43,26.42
2016-08-15 14:43:40,272.42,280.23,254.7,384.32,382.73,380.13,219.47,219.64,223.47,48.98,48.54,45.71,34.23,37.79,33.87,59.75,61.51,56.89,0.97,0.82,0.83,0.97,0.82,0.83,7213.48,5131.02,8883.08,106.51,99.15,26.39
2016-08-15 14:43:45,272.16,280.05,254.36,385.08,383.48,380.9,219.95,220.06,223.89,48.98,48.48,45.66,34.42,38.34,01.59,87.61,6.56,94.0,0.97,0.82,0.87,0.97,0.82,0.87,7213.62,5131.13,8883.26,105.38,99.45,26.35
2016-08-15 14:43:50,272.27,279.83,254.3,384.94,383.29,380.74,219.86,219.97,223.79,48.99,48.46,45.67,34.39,37.95,33.95,59.86,61.56,56.91,0.99,0.83,0.86,0.99,0.83,0.86,7213.81,5131.27,8883.5,106.67,99.13,26.38
2016-08-15 14:43:55,260.19,267.63,241.61,385.99,384.54,382.13,220.7,220.64,224.4,48.36,47.53,44.69,33.58,37.43,33.11,58.87,60.5,55.62,0.96,0.82,0.86,0.96,0.82,0.86,7213.95,5131.38,8883.68,106.84,99.69,26.41
2016-08-15 14:44:00,265.57,273.02,246.46,385.43,383.99,381.53,220.3,220.31,224.14,48.13,47.25,44.4,33.35,37.26,32.86,58.56,60.17,55.24,0.98,0.83,0.89,0.98,0.83,0.89,7214.09,5131.48,8883.85,106.42,99.82,26.39
2016-08-15 14:44:05,266.35,273.87,246.91,385.75,384.25,381.82,220.5,220.44,224.3,48.28,47.41,44.51,33.44,37.38,32.96,58.73,60.37,55.38,0.98,0.81,0.85,0.98,0.81,0.85,7214.28,5131.61,8884.08,106.92,99.79,26.43
2016-08-15 14:44:10,266.97,274.63,247.72,385.62,384.21,381.72,220.41,220.41,224.28,48.17,47.39,44.56,33.12,36.94,32.67,58.46,60.09,55.25,1,0.85,0.88,1,0.85,0.88,7214.42,5131.72,8884.26,106.20,99.81,26.42
2016-08-15 14:44:15,257.38,264.42,240,385.93,384.57,382.07,220.64,220.68,224.36,47.08,46.44,43.82,31.87,35.41,31.43,56.85,58.4,53.93,1,0.84,0.89,1,0.84,0.89,7214.56,5131.82,8884.43,106.53,99.17,26.37
2016-08-15 14:44:20,258.28,265.26,241.05,385.97,384.64,382.12,220.64,220.72,224.4,47.24,46.61,44.01,31.9,35.43,31.47,57.58,55.54,1,1.01,0.85,0.9,1.01,0.85,0.9,7214.74,5131.95,8884.66,106.0,99.67,26.36
2016-08-15 14:44:25,265.24,272.37,246.83,385.74,384.41,381.81,220.4,220.6,224.32,48.82,48.15,45.34,32.32,36.08,31.93,58.55,60.17,55.46,1,0.84,0.88,1,0.84,0.88,7214.88,5132.05,8884.83,106.18,99.74,26.31

2016-08-15 14:44:30,268.67,275.77,249.39,385.42,383.95,381.4,220.1,220.28,224.27,49.37,48.58,45.57,33.71,37.66,33.27,59.78,61.47,56.43,0.96,0.82,0.86,0.96,0.82,0.86,7215.03,5132.16,8885.01,105.92,99.73,26.41
2016-08-15 14:44:35,300.12,307.54,279.86,384.05,382.23,379.5,218.79,219.44,223.56,54.95,54.64,51.49,35.95,39.61,35.54,65.66,67.49,62.57,0.97,0.8,0.85,0.97,0.8,0.85,7215.22,5132.3,8885.24,105.68,99.92,26.34
2016-08-15 14:44:40,298.74,306.4,278.31,383.91,382.09,379.39,218.74,219.33,223.5,51.16,51.19,48.15,32.39,35.76,32.16,60.55,62.44,57.9,0.97,0.82,0.85,0.97,0.82,0.85,7215.38,5132.41,8885.44,106.4,99.13,26.32
2016-08-15 14:44:45,254.38,262.08,239.73,386.71,385.36,382.55,220.68,221.35,224.84,48.1,48.36,45.49,28.97,32.07,28.96,56.15,58.02,53.92,1,0.81,0.89,1,0.81,0.89,7215.54,5132.52,8885.63,106.23,99.31,26.34
2016-08-15 14:44:50,254.62,262.02,239.65,386.61,385.23,382.46,220.65,221.27,224.76,48.15,48.31,45.48,28.95,32.05,28.87,56.18,57.98,53.87,0.96,0.81,0.84,0.96,0.81,0.84,7215.73,5132.64,8885.86,105.30,99.28,26.44
2016-08-15 14:44:55,254.38,261.71,239.46,386.82,385.46,382.66,220.77,221.41,224.88,48.09,48.24,45.42,28.98,32.08,28.87,56.15,57.93,53.82,0.95,0.8,0.85,0.95,0.8,0.85,7215.87,5132.73,8886.03,106.46,99.62,26.42
2016-08-15 14:45:00,254.28,261.65,239.26,386.89,385.53,382.8,220.89,221.44,224.88,47.49,47.52,44.67,28.31,31.54,28.22,55.29,57.04,52.84,0.97,0.82,0.9,0.97,0.82,0.9,7216.01,5132.82,8886.2,106.8,99.33,26.33
2016-08-15 14:45:05,256.82,263.95,239.41,386.68,385.45,382.58,220.65,221.45,224.81,49.05,48.95,45.82,27.64,31.21,27.57,56.3,58.05,53.47,0.99,0.83,0.86,0.99,0.83,0.86,7216.2,5132.94,8886.42,105.49,99.25,26.32
2016-08-15 14:45:10,250.26,257.26,233.59,386.89,385.68,382.97,220.92,221.53,224.95,47.61,47.51,44.5,27.25,30.73,27.2,54.86,56.59,52.16,0.98,0.82,0.87,0.98,0.82,0.87,7216.34,5133.02,8886.59,105.17,99.61,26.35
2016-08-15 14:45:15,231.99,239.13,216.78,387.54,386.46,383.82,221.57,221.89,225.24,43.97,43.75,40.98,26.63,30.03,26.55,51.4,53.06,48.83,0.93,0.79,0.85,0.93,0.79,0.85,7216.53,5133.14,8886.81,105.86,99.64,26.44
2016-08-15 14:45:20,228.82,235.99,213.63,387.35,386.3,383.65,221.51,221.79,225.11,43.1,42.84,40.09,26.41,29.79,26.31,50.55,52.17,47.95,0.97,0.82,0.87,0.97,0.82,0.87,7216.66,5133.22,8886.96,105.92,99.9,26.32
2016-08-15 14:45:25,227.43,234.44,212.27,388.08,387.02,384.42,221.97,222.18,225.52,42.78,42.46,39.77,26.61,29.98,26.47,50.38,51.98,47.77,0.93,0.77,0.86,0.93,0.77,0.86,7216.79,5133.3,8887.11,106.47,99.89,26.43
2016-08-15 14:45:30,226.04,233.04,210.92,388.07,387.02,384.41,221.98,222.18,225.51,42.56,42.22,39.55,26.58,29.97,26.43,50.18,51.78,47.57,0.93,0.78,0.85,0.93,0.78,0.85,7216.96,5133.41,8887.32,106.89,99.83,26.33
2016-08-15 14:45:35,225.77,232.77,210.33,388.19,387.02,384.47,222.07,222.19,225.52,42.5,42.11,39.4,26.57,29.97,26.38,50.12,51.69,47.42,0.97,0.79,0.88,0.97,0.79,0.88,7217.08,5133.49,8887.46,106.45,99.23,26.38
2016-08-15 14:45:40,233.3,240.5,218.41,386.87,385.37,382.62,220.93,221.32,224.75,45.42,45.56,42.99,29.55,32.4,29.34,54.18,55.9,52.05,0.96,0.81,0.88,0.96,0.81,0.88,7217.21,5133.58,8887.61,105.51,99.78,26.32
2016-08-15 14:45:45,236.14,243.32,222.36,387.58,386.25,383.56,221.52,221.77,225.18,43.81,43.78,41.25,28.59,31.55,28.38,52.31,53.96,50.07,0.94,0.79,0.87,0.94,0.79,0.87,7217.38,5133.69,8887.82,105.11,99.51,26.35
2016-08-15 14:45:50,234.62,242.1,221.13,387.73,386.45,383.75,221.63,221.86,225.28,43.46,43.46,40.91,28.48,31.48,28.34,51.96,53.66,49.76,0.94,0.79,0.86,0.94,0.79,0.86,7217.51,5133.78,8887.98,105.5,99.11,26.34
2016-08-15 14:45:55,234.33,241.71,220.89,387.5,386.21,383.57,221.53,221.71,225.17,43.45,43.44,40.93,28.43,31.39,28.27,51.93,53.59,49.74,0.94,0.79,0.86,0.94,0.79,0.86,7217.63,5133.87,8888.13,106.16,99.16,26.36
2016-08-15 14:46:00,234.37,241.75,220.86,387.48,386.2,383.52,221.5,221.71,225.15,43.44,43.44,40.91,28.43,31.4,28.26,51.91,53.6,49.73,0.98,0.84,0.89,0.98,0.84,0.89,7217.8,5133.98,8888.34,105.97,99.91,26.30
2016-08-15 14:46:05,229.39,236.4,215.66,388.08,386.85,384.17,221.92,222.1,225.44,41.34,40.98,38.4,26.06,29.38,25.89,48.87,50.42,46.31,0.94,0.8,0.85,0.94,0.8,0.85,7217.93,5134.07,8888.49,106.33,99.51,26.36
2016-08-15 14:46:10,219.52,226.51,204.93,388.64,387.61,384.98,222.41,222.51,225.76,41.34,40.99,38.37,26.03,29.38,25.88,48.85,50.44,46.29,0.97,0.81,0.84,0.97,0.81,0.84,7218.06,5134.16,8888.65,106.10,99.50,26.31
2016-08-15 14:46:15,219.48,226.55,205.04,388.53,387.57,384.94,222.35,222.47,225.74,41.3,40.98,38.38,26.29,33.25,88.48,8.50,4.46,29.06,0.8,0.85,0.96,0.8,0.85,7218.22,5134.27,8888.84,105.54,99.23,26.31
2016-08-15 14:46:20,219.47,226.65,205.08,388.61,387.66,385.03,222.4,222.5,225.8,41.32,41.03,38.38,25.99,29.34,25.89,48.81,50.45,46.3,0.94,0.83,0.89,0.94,0.83,0.89,7218.34,5134.35,8888.99,106.77,99.14,26.40
2016-08-15 14:46:25,219.74,226.77,205.29,388.56,387.6,384.98,222.36,222.48,225.77,41.39,41.06,38.45,26.02,29.38,25.9,48.89,50.49,46.35,0.96,0.78,0.88,0.96,0.78,0.88,7218.46,5134.43,8889.13,106.80,99.37,26.37
2016-08-15 14:46:30,220.83,227.85,205.78,389.03,387.89,385.27,222.61,222.72,225.91,41.63,41.25,38.56,26.14,29.56,25.97,49.16,50.75,46.49,0.94,0.79,0.86,0.94,0.79,0.86,7218.62,5134.53,8889.33,106.28,99.41,26.43
2016-08-15 14:46:35,221.08,228.05,206.26,388.87,387.85,385.25,222.53,222.65,225.92,41.76,41.39,38.73,26.13,29.52,25.98,49.26,50.84,46.64,0.94,0.79,0.88,0.94,0.79,0.88,7218.74,5134.62,8889.47,105.24,99.6,26.35
2016-08-15 14:46:40,221.65,228.63,206.74,388.73,387.73,385.15,222.44,222.58,225.86,41.85,41.48,38.83,26.11,29.5,25.98,49.33,50.9,46.72,0.96,0.79,0.86,0.96,0.79,0.86,7218.87,5134.7,8889.62,105.32,99.51,26.31
2016-08-15 14:46:45,222.29,229.42,207.45,388.82,387.75,385.11,222.45,222.63,225.85,41.99,41.69,38.97,26.11,29.51,26.49,45.51,08.46,85.06,0.82,0.87,0.96,0.82,0.87,7219.03,5134.81,8889.82,106.94,99.53,26.41
2016-08-15 14:46:50,236.43,243.93,223.36,387.78,386.45,383.67,221.58,221.93,225.25,43.83,43.93,41.35,28.09,31.07,28.52,06.53,81.49,94.09,0.97,0.81,0.89,0.97,0.81,0.89,7219.15,5134.89,8889.96,106.94,99.47,26.35
2016-08-15 14:46:55,233.73,241.27,220.55,387.79,386.57,383.81,221.66,221.96,225.29,43.49,43.57,41.02,27.94,30.93,27.85,51.69,53.43,49.58,1,0.84,0.87,1,0.84,0.87,7219.28,5134.98,8890.12,105.87,99.78,26.42

2016-08-15 14:47:00,234.53,241.42,220.62,387.71,386.29,383.64,221.6,221.86,225.14,43.8,43.7,41.2,27.98,30.97,27.74,51.97,53.56,49.67,0.97,0.82,0.88,0.97,0.82,0.88,7219.45,5135.09,8890.33,105.27,99.23,26.33
2016-08-15 14:47:05,288.78,296.28,268.32,382.67,380.89,378.12,218.03,218.66,222.72,52.36,52.02,48.9,34.56,38.18,34.01,62.74,64.53,59.56,0.93,0.79,0.82,0.93,0.79,0.82,7219.58,5135.18,8890.48,106.54,99.17,26.35
2016-08-15 14:47:10,281.85,289.42,262.18,384.43,382.71,380.08,219.26,219.63,223.73,50.93,50.52,47.55,34.32,37.85,33.73,61.41,63.12,58.3,0.93,0.81,0.85,0.93,0.81,0.85,7219.73,5135.28,8890.66,106.31,99.72,26.33
2016-08-15 14:47:15,277.2,284.66,258.18,384.5,382.71,380.16,219.36,219.64,223.71,50.29,49.91,46.96,34.18,37.66,33.62,60.81,62.52,57.76,0.94,0.81,0.83,0.94,0.81,0.83,7219.93,5135.42,8890.91,105.87,99.12,26.32
2016-08-15 14:47:20,265.09,272.61,245.61,385.07,383.69,381.12,219.88,220.12,224.14,48.54,47.91,44.87,32.26,36.11,31.81,58.28,59.99,55.09,0.92,0.78,0.85,0.92,0.78,0.85,7220.08,5135.52,8891.09,105.11,99.39,26.43
2016-08-15 14:47:25,264.73,272.12,244.99,384.5,382.93,380.45,219.52,219.76,223.7,48.52,47.86,44.76,32.05,35.94,31.58,58.15,59.85,54.78,0.98,0.81,0.86,0.98,0.81,0.86,7220.22,5135.62,8891.26,106.81,99.50,26.34
2016-08-15 14:47:30,264.32,272.01,244.4,384.42,382.95,380.38,219.51,219.75,223.64,48.4,47.76,44.63,31.99,35.94,31.56,58.02,59.78,54.66,0.99,0.85,0.87,0.99,0.85,0.87,7220.41,5135.76,8891.49,106.73,99.66,26.37
2016-08-15 14:47:35,264.31,272.34,244.2,384.36,382.84,380.25,219.47,219.69,223.58,48.36,47.83,44.63,31.88,35.86,31.55,57.92,59.78,54.65,0.97,0.84,0.86,0.97,0.84,0.86,7220.55,5135.86,8891.67,105.36,99.85,26.38
2016-08-15 14:47:40,264.56,272.27,244.8,384.25,382.72,380.21,219.4,219.62,223.57,48.52,47.92,44.79,31.96,35.88,31.54,58.1,59.86,54.78,0.96,0.82,0.83,0.96,0.82,0.83,7220.69,5135.95,8891.84,105.1,99.15,26.42
2016-08-15 14:47:45,265.01,273.09,245.61,384.14,382.68,380.13,219.32,219.58,223.54,48.56,48.07,44.9,31.93,35.85,31.6,58.12,59.97,54.9,0.95,0.83,0.86,0.95,0.83,0.86,7220.88,5136.09,8892.07,106.24,99.97,26.31
2016-08-15 14:47:50,265.8,273.78,246.27,383.91,382.52,379.92,219.15,219.51,223.44,48.78,48.28,45.08,31.82,35.76,31.5,58.24,60.08,54.99,0.96,0.82,0.85,0.96,0.82,0.85,7221.02,5136.19,8892.24,105.36,99.57,26.39
2016-08-15 14:47:55,266.83,274.6,246.64,382.54,380.69,378.217,98.218,55,222.62,52.23,52.04,48.91,34.87,38.38,34.38,62.8,64.66,59.78,0.93,0.79,0.84,0.93,0.79,0.84,7221.16,5136.28,8892.42,105.81,99.85,26.38
2016-08-15 14:48:00,279.52,287.36,260.21,383.17,381.46,378.79,218.48,218.97,222.97,50.82,50.54,47.43,33.86,37.49,33.42,61.07,62.92,58.02,0.91,0.81,0.82,0.91,0.81,0.82,7221.35,5136.42,8892.65,105.36,99.92,26.35
2016-08-15 14:48:05,278.58,286.3,259.46,382.96,381.27,378.65,218.4,218.83,222.88,50.58,50.33,47.25,33.7,37.28,33.26,60.78,62.63,57.79,0.92,0.79,0.84,0.92,0.79,0.84,7221.51,5136.52,8892.83,106.8,99.89,26.44
2016-08-15 14:48:10,278.57,286.13,259.25,382.98,381.25,378.66,218.42,218.82,222.88,50.65,50.3,47.29,33.76,37.31,33.26,60.87,62.63,57.82,0.9,0.76,0.83,0.9,0.76,0.83,7221.65,5136.63,8893.01,106.93,99.55,26.41
2016-08-15 14:48:15,279.18,286.79,259.95,383.38,381.68,379.09,218.66,219.05,223.14,50.78,50.45,47.43,33.88,37.44,33.39,61.05,62.82,58.01,0.87,0.76,0.78,0.87,0.76,0.78,7221.85,5136.77,8893.26,106.12,99.68,26.31
2016-08-15 14:48:20,279.48,286.94,260.26,383.43,381.76,379.14,218.68,219.1,223.17,50.83,50.47,47.48,33.91,37.43,33.36,61.1,62.83,58.03,0.85,0.73,0.77,0.85,0.73,0.77,7222.01,5136.87,8893.44,106.24,99.94,26.45
2016-08-15 14:48:25,275.75,283.1,256.14,384.4,382.85,380.31,219.45,219.71,223.64,49.02,48.35,45.27,32.13,36.01,31.61,58.61,60.28,55.22,0.89,0.75,0.78,0.89,0.75,0.78,7222.15,5136.98,8893.62,106.19,99.9,26.30
2016-08-15 14:48:30,266.81,274.24,246.67,384.25,382.7,380.16,219.36,219.63,223.56,48.98,48.33,45.23,32.04,35.94,31.55,58.53,60.23,55.15,0.89,0.75,0.81,0.89,0.75,0.81,7222.34,5137.11,8893.86,105.96,99.98,26.31
2016-08-15 14:48:35,271.82,279.06,251.19,383.67,382.11,379.64,218.99,219.27,223.31,49.61,48.97,45.85,32.73,36.63,32.21,59.43,61.15,56.04,0.89,0.75,0.81,0.89,0.75,0.81,7222.49,5137.21,8894.03,105.53,99.55,26.33
2016-08-15 14:48:40,271.35,278.71,250.81,384.11,382.56,380.07,219.27,219.51,223.56,49.63,48.93,45.83,32.82,36.74,32.29,59.5,61.19,56.06,0.89,0.75,0.78,0.89,0.75,0.78,7222.63,5137.31,8894.21,106.16,99.69,26.41
2016-08-15 14:48:45,271.46,278.85,250.75,384.11,382.52,380.03,219.26,219.5,223.53,49.65,48.95,45.83,32.82,36.75,32.28,59.52,61.21,56.05,0.9,0.77,0.81,0.9,0.77,0.81,7222.82,5137.45,8894.45,106.78,99.44,26.41
2016-08-15 14:48:50,271.88,279.28,250.94,384.43,382.86,380.35,219.43,219.69,223.72,49.8,49.05,45.89,32.86,36.85,32.3,59.66,61.35,56.12,0.9,0.77,0.82,0.9,0.77,0.82,7222.97,5137.55,8894.62,105.4,99.70,26.30
2016-08-15 14:48:55,272.07,279.48,251.12,383.76,382.2,379.67,219.02,219.33,223.35,49.85,49.16,46.01,32.73,36.69,32.2,59.64,61.34,56.16,0.89,0.75,0.81,0.89,0.75,0.81,7223.11,5137.65,8894.8,105.29,99.87,26.31
2016-08-15 14:49:00,282.59,289.78,260.47,383.55,381.89,379.27,218.75,219.23,223.2,52.11,51.4,48.08,33.25,37.33,32.68,61.82,63.53,58.14,0.91,0.76,0.8,0.91,0.76,0.8,7223.31,5137.78,8895.03,105.6,99.65,26.37
2016-08-15 14:49:05,301.91,309.57,281.27,382.17,380.22,377.46,217.57,218.31,222.5,53.99,53.8,50.61,35.18,38.76,34.67,64.44,66.31,61.34,0.9,0.76,0.8,0.9,0.76,0.8,7223.45,5137.89,8895.22,105.36,99.65,26.37
2016-08-15 14:49:10,291.16,298.71,270.86,382.98,381.17,378.49,218.25,218.79,222.94,52.79,52.5,49.35,34.86,38.48,34.34,63.27,65.09,60.12,0.91,0.76,0.84,0.91,0.76,0.84,7223.61,5137.99,8895.41,106.95,99.24,26.45
2016-08-15 14:49:15,287.85,295.39,267.71,383.34,381.54,378.89,218.51,218.99,223.13,52.37,52.01,48.92,34.84,38.46,34.28,62.9,64.69,59.73,0.9,0.77,0.79,0.9,0.77,0.79,7223.82,5138.14,8895.66,105.28,99.95,26.27
2016-08-15 14:49:20,286.01,293.46,265.77,383.22,381.41,378.78,218.47,218.91,223.04,50.88,50.55,47.68,33.87,37.24,33.26,61.13,62.79,58.13,0.92,0.79,0.83,0.92,0.79,0.83,7223.98,5138.24,8895.85,106.1,99.58,26.27
2016-08-15 14:49:25,273.04,279.91,255.17,384.14,382.48,379.77,219.13,219.56,223.45,49.56,49.28,46.58,33.18,36.4,32.58,59.64,61.27,56.84,0.9,0.76,0.79,0.9,0.76,0.79,7224.13,5138.35,8896.03,106.82,99.15,26.32

2016-08-15 14:49:30,268.95,275.99,251.69,384.13,382.52,379.81,219.16,219.56,223.44,48.88,48.66,45.97,32.94,36.12,32.39,58.94,60.6,56.24,0.9,0.78,0.82,0.9,0.78,0.82,7224.32,5138.49,8896.27,106.2,99.96,26.30
2016-08-15 14:49:35,258.66,265.73,241.97,384.62,383.13,380.52,219.62,219.87,223.72,45.81,45.31,42.6,30.39,33.87,29.94,54.97,56.57,52.07,0.94,0.79,0.85,0.94,0.79,0.85,7224.47,5138.59,8896.45,105.96,99.1,26.29
2016-08-15 14:49:40,248.54,255.58,231.06,385.2,383.9,381.3,220.11,220.29,224.02,45.38,44.87,42.15,30.29,33.79,29.85,54.56,56.17,51.65,0.96,0.81,0.87,0.96,0.81,0.87,7224.61,5138.69,8896.62,105.97,99.76,26.34
2016-08-15 14:49:45,247.34,254.38,230.13,385.42,384.09,381.55,220.28,220.38,224.16,45.23,44.71,42.04,30.37,33.81,29.89,54.48,56.06,51.59,0.93,0.75,0.83,0.93,0.75,0.83,7224.78,5138.81,8896.84,105.23,99.40,26.28
2016-08-15 14:49:50,247.67,254.62,230.26,385.58,384.24,381.67,220.36,220.49,224.22,45.37,44.82,42.11,30.39,33.89,29.91,54.61,56.2,51.65,0.96,0.8,0.88,0.96,0.8,0.88,7224.92,5138.9,8897.106.30,99.37,26.23
2016-08-15 14:49:55,248.84,255.87,231.45,385.51,384.16,381.59,220.29,220.43,224.21,45.72,45.23,42.5,30.47,33.94,30.01,54.94,56.54,52.03,0.93,0.78,0.83,0.93,0.78,0.83,7225.05,5139,8897.16,106.86,99.97,26.33
2016-08-15 14:50:00,250.15,257.49,233.03,385.19,383.91,381.27,220.06,220.29,224.06,45.89,45.48,42.71,30.41,33.9,30.03,55.05,56.72,52.21,0.97,0.82,0.86,0.97,0.82,0.86,7225.23,5139.12,8897.38,105.15,99.63,26.22
2016-08-15 14:50:05,250.33,257.53,233.04,384.78,383.48,380.86,219.81,220.06,223.81,45.89,45.47,42.73,30.29,33.74,29.89,54.98,56.62,52.15,0.99,0.87,0.92,0.99,0.87,0.92,7225.36,5139.22,8897.55,106.23,99.46,26.22
2016-08-15 14:50:10,250.62,257.96,233.59,384.91,383.64,380.97,219.88,220.15,223.89,46.06,45.7,42.91,30.36,33.86,30.01,55.17,56.87,52.36,1.01,0.85,0.88,1.01,0.85,0.88,7225.49,5139.31,8897.71,105.99,99.79,26.25
2016-08-15 14:50:15,252.41,259.57,234.93,384.97,383.61,380.99,219.89,220.16,223.89,46.4,45.96,43.18,30.46,33.96,30.03,55.5,57.15,52.6,0.99,0.84,0.88,0.99,0.84,0.88,7225.67,5139.44,8897.93,105.20,99.15,26.21
2016-08-15 14:50:20,266.95,274.25,250.92,384.1,382.47,379.72,219.14,219.55,223.38,48.34,48.28,45.6,32.53,35.64,32.09,58.26,60.01,55.76,0.95,0.8,0.84,0.95,0.8,0.84,7225.81,5139.53,8898.09,106.4,99.73,26.27
2016-08-15 14:50:25,264.61,272.04,248.41,384.27,382.69,379.99,219.28,219.65,223.51,48.09,48.03,45.38,32.35,35.44,31.92,57.96,59.69,55.48,0.96,0.8,0.85,0.96,0.8,0.85,7225.95,5139.63,8898.27,106.91,99.23,26.30
2016-08-15 14:50:30,264.19,271.62,248.14,384.45,382.96,380.21,219.4,219.79,223.66,48.07,48.01,45.37,32.39,35.49,31.96,57.96,59.7,55.5,0.93,0.78,0.83,0.93,0.78,0.83,7226.14,5139.76,8898.5,105.91,99.98,26.23
2016-08-15 14:50:35,264.56,271.75,248.51,384.4,382.92,380.24,219.39,219.75,223.66,47.99,48.04,45.48,32.35,35.28,31.97,57.88,59.6,55.59,0.92,0.76,0.86,0.92,0.76,0.86,7226.28,5139.86,8898.67,106.53,99.29,26.35
2016-08-15 14:50:40,263.41,270.91,248.53,385.3,383.6,380.93,219.89,220.21,224.02,48.06,48.18,45.57,32.52,35.41,32.15,58.03,59.79,55.77,0.98,0.81,0.87,0.98,0.81,0.87,7226.43,5139.96,8898.85,106.71,99.90,26.28
2016-08-15 14:50:45,251.76,259.14,235.82,386.25,384.88,382.27,220.66,220.87,224.63,46.3,46.1,43.42,30.69,33.93,30.35,55.55,57.24,52.97,0.99,0.81,0.88,0.99,0.81,0.88,7226.61,5140.1,8899.08,106.29,99.25,26.26
2016-08-15 14:50:50,251.79,259.25,235.92,386.26,384.9,382.29,220.66,220.89,224.65,46.35,46.13,43.44,30.64,33.91,30.31,55.56,57.25,52.97,0.98,0.8,0.84,0.98,0.8,0.84,7226.75,5140.19,8899.25,106.6,99.17,26.25
2016-08-15 14:50:55,252.04,259.5,236.12,386.33,384.98,382.39,220.73,220.92,224.7,46.37,46.17,43.49,30.71,33.97,30.39,55.62,57.32,53.05,0.95,0.81,0.83,0.95,0.81,0.83,7226.89,5140.29,8899.41,105.31,99.38,26.33
2016-08-15 14:51:00,271.35,278.72,253.78,385.13,383.59,380.91,219.74,220.21,224.05,50.25,50.09,47.2,32.09,35.47,31.71,59.62,61.38,56.86,0.96,0.79,0.83,0.96,0.79,0.83,7227.07,5140.41,8899.63,106.61,99.60,26.33
2016-08-15 14:51:05,267.17,274.23,249.84,385.36,383.83,381.26,219.94,220.32,224.21,49.03,48.77,46.05,31.82,35.05,31.37,58.45,60.06,55.72,0.98,0.82,0.84,0.98,0.82,0.84,7227.21,5140.51,8899.81,106.96,99.8,26.28
2016-08-15 14:51:10,263.43,270.48,246.22,385.54,384.02,381.47,220.09,220.43,224.27,48.48,48.22,45.45,31.59,34.88,31.18,57.86,59.51,55.12,0.94,0.8,0.83,0.94,0.8,0.83,7227.36,5140.61,8899.98,105.92,99.87,26.25
2016-08-15 14:51:15,261.46,268.85,244.49,385.56,384.07,381.5,220.13,220.45,224.27,48.18,47.95,45.14,31.48,34.83,31.13,57.56,59.27,54.83,0.98,0.81,0.85,0.98,0.81,0.85,7227.55,5140.74,8900.21,106.17,99.70,26.30
2016-08-15 14:51:20,261.1,268.53,244.32,385.43,384.01,381.39,220.05,220.41,224.23,48.09,47.91,45.11,31.44,34.8,31.13,57.46,59.21,54.81,0.99,0.83,0.88,0.99,0.83,0.88,7227.69,5140.84,8900.39,105.4,99.35,26.24
2016-08-15 14:51:25,276.59,284.16,261.32,384.96,383.36,380.62,219.56,220.05,224.49,82.50,02.47,41.33,56.36,41,33.21,60.07,61.87,57.88,0.96,0.79,0.84,0.96,0.79,0.84,7227.83,5140.93,8900.56,105.64,99.66,26.20
2016-08-15 14:51:30,271.9,279.36,256.39,384.88,383.27,380.54,219.53,220.01,223.92,49.51,49.64,47.33,34.36,25.32,97.59,69.61,46.57,41,0.97,0.81,0.86,0.97,0.81,0.86,7228.03,5141.07,8900.8,106.86,99.30,26.26
2016-08-15 14:51:35,271.55,279.31,255.84,384.86,383.24,380.46,219.52,220.01,223.86,49.49,49.59,46.87,33.2,36.21,32.86,59.6,61.41,57.24,0.98,0.83,0.85,0.98,0.83,0.85,7228.18,5141.17,8900.98,106.81,99.26,26.29

Priedas Nr.3

T-21 25 kW savų reikmių transformatoriaus matavimo metu gauti duomenys

Laikas,"Srovė fazė A, A","Srovė fazė B, A","Srovė fazė C, A","Įtampa A-B, V","Įtampa B-C, V","Įtampa C-A, V","Įtampa A-N, V","Įtampa B-N, V","Įtampa C-N, V","Aktyvioji galia fazė A, kW","Aktyvioji galia fazė B, kW","Aktyvioji galia fazė C, kW","Reaktyvioji galia fazė A, kVAr","Reaktyvioji galia fazė B, kVAr","Reaktyvioji galia fazė C, kVAr","Suminė galia fazė A, kVA","Suminė galia fazė B, kVA","Suminė galia fazė C, kVA","THD/thd Įtampos fazė A-N, %","THD/thd Įtampos fazė B-N, %","THD/thd Įtampos fazė C-N, %","THD/thd Įtampos fazė A-B, %","THD/thd Įtampos fazė B-C, %","THD/thd Įtampos fazė C-A, %","Bendra aktyvioji energija, kWh","Bendra reaktyvioji energija, kVArh","Suminė energija, kVAh","Apvijų temperatūra, °C","Alyvos temperatūra, °C","Aplinkos temperatūra, °C"

2016-08-15 09:15:00,59.2,57.08,64.44,395.83,393.2,396.02,228.32,228.49,227.52,12.04,11.11,12.9,6.25,6.94,7,13.56,13.1,14.68,1.66,1.74,1.61,1.66,1.74,1.61,5643.16,2297.66,6322.53,101.71,91.12,24.46
2016-08-15 09:15:05,59.32,57.29,64.53,395.91,393.67,396.01,228.38,228.52,227.74,12.04,11.06,12.89,6.25,6.88,7.01,13.57,13.03,14.67,1.71,1.74,1.29,1.71,1.74,1.29,5643.2,2297.67,6322.57,102.78,91.69,24.42
2016-08-15 09:15:10,59.31,57.22,64.49,396.33,393.59,396.64,228.83,228.55,227.81,12.01,11.08,12.89,6.29,6.88,7,13.56,13.05,14.67,1.67,1.62,1.4,1.67,1.62,1.4,5643.23,2297.69,6322.61,102.0,91.40,24.40
2016-08-15 09:15:15,59.25,57.07,64.36,396.393.12,396.44,228.75,228.24,227.62,12,11.08,12.89,6.31,6.89,7,13.55,13.05,14.67,1.66,1.62,1.37,1.66,1.62,1.37,5643.28,2297.71,6322.66,102.33,90.71,24.40
2016-08-15 09:15:20,59.49,57.12,64.68,396.28,394.21,396.34,228.56,228.81,227.98,12.1,11.07,12.91,6.22,6.93,7.05,13.61,13.06,14.71,1.84,1.89,1.37,1.84,1.89,1.37,5643.32,2297.72,6322.7,102.62,90.59,24.43
2016-08-15 09:15:25,59.42,57.18,64.55,396.47,393.93,396.73,228.87,228.73,227.92,12.08,11.06,12.88,6.28,6.95,7.09,13.62,13.06,14.7,1.86,1.94,1.41,1.86,1.94,1.41,5643.35,2297.74,6322.75,102.61,91.47,24.45
2016-08-15 09:15:30,59.45,57.15,64.52,396.04,393.6,396.32,228.61,228.49,227.74,12.06,11.06,12.87,6.32,6.97,7.11,13.61,13.07,14.71,1.84,1.92,1.42,1.84,1.92,1.42,5643.4,2297.76,6322.8,101.99,90.13,24.40
2016-08-15 09:15:35,59.45,57.08,64.66,396.67,393.85,397.08,229.08,228.76,227.95,12.09,11.04,12.89,6.25,6.93,7.11,13.61,13.04,14.72,1.65,1.64,1.34,1.65,1.64,1.34,5643.44,2297.77,6322.84,102.2,90.45,24.43
2016-08-15 09:15:40,59.52,56.94,64.59,395.95,393.28,396.47,228.72,228.28,227.7,12.16,11.01,12.92,6.21,6.91,7.13,13.65,13,14.75,1.66,1.82,1.56,1.66,1.82,1.56,5643.47,2297.79,6322.89,102.53,91.21,24.44
2016-08-15 09:15:45,59.97,57.2,64.97,396.27,393.74,396.49,228.58,229.5,227.1,12.11,11.03,12.91,6.25,6.9,7.11,13.63,13.01,14.73,1.62,1.68,1.56,1.62,1.68,1.56,5643.52,2297.81,6322.94,102.38,91.60,24.46
2016-08-15 09:15:50,62.59,59.97,67.74,396.21,393.65,396.47,228.44,229.35,227.29,12.6,11.59,13.42,6.37,7.03,7.15,14.12,13.56,15.21,1.7,1.68,1.38,1.7,1.68,1.38,5643.56,2297.82,6322.98,101.76,90.12,24.44
2016-08-15 09:15:55,64.9,62.29,69.95,395.85,393.14,396.27,228.37,228.99,227.1,13.27,12.21,14.02,6.43,7.08,7.22,14.75,14.11,15.77,1.8,1.86,1.39,1.8,1.86,1.39,5643.6,2297.84,6323.03,101.87,90.76,24.39
2016-08-15 09:16:00,68.91,66.52,73.81,395.59,393.06,395.73,227.85,228.61,227.47,13.99,13.07,14.84,6.53,7.22,7.25,15.43,14.93,16.52,1.89,1.95,1.42,1.89,1.95,1.42,5643.65,2297.86,6323.09,102.28,90.37,24.45
2016-08-15 09:16:05,69.78,67.37,74.67,395.1,392.66,395.41,227.65,228.25,227.34,14.41,13.53,15.29,6.68,7.35,7.36,15.89,15.4,16.97,1.81,2.05,1.63,1.81,2.05,1.63,5643.69,2297.88,6323.14,102.26,90.62,24.41
2016-08-15 09:16:10,77.35,74.84,81.92,394.8,392.83,395.1,227.34,228.26,227.38,16.42,15.61,17.33,7.15,7.76,7.7,17.91,17.43,18.96,1.77,2.05,1.74,1.77,2.05,1.74,5643.74,2297.89,6323.19,101.75,91.38,24.40
2016-08-15 09:16:15,71.94,69.96,76.96,395.46,393.06,395.52,227.7,228.64,227.4,15.36,14.47,16.21,6.85,7.55,7.52,16.82,16.32,17.87,1.97,1.98,1.43,1.97,1.98,1.43,5643.81,2297.91,6323.26,102.20,90.1,24.40
2016-08-15 09:16:20,68.89,66.86,73.85,395.58,393.58,395.68,227.7,228.82,227.68,14.36,13.57,15.29,6.8,7.41,7.38,15.88,15.46,16.98,1.79,1.8,1.33,1.79,1.8,1.33,5643.85,2297.93,6323.31,101.53,90.66,24.43
2016-08-15 09:16:25,67.55,64.68,72.21,395.64,393.62,395.81,227.51,229.57,227.26,13.89,13.1,14.73,6.63,7.24,7.2,15.39,14.97,16.4,1.91,1.95,1.41,1.91,1.95,1.41,5643.89,2297.95,6323.35,101.30,90.37,24.38
2016-08-15 09:16:30,65.2,62.85,70.11,396.04,393.6,396.43,228.21,228.85,227.86,13.68,12.72,14.54,6.46,7.2,7.22,15.13,14.61,16.24,1.86,1.96,1.44,1.86,1.96,1.44,5643.95,2297.97,6323.41,101.24,90.60,24.38
2016-08-15 09:16:35,61.78,59.49,66.98,396.1,393.52,396.26,228.15,228.93,227.72,12.71,11.87,13.73,6.44,7.17,7.13,14.25,13.86,15.47,1.67,1.71,1.64,1.67,1.71,1.64,5643.99,2297.98,6323.46,102.41,90.17,24.44
2016-08-15 09:16:40,59.82,57.56,65.09,396.32,394.1,396.5,228.23,229.13,228.04,12.12,11.26,13.12,6.31,7.02,7.05,13.67,13.27,14.89,1.84,1.89,1.4,1.84,1.89,1.4,5644.02,2298.0,6323.5,102.1,91.58,24.40
2016-08-15 09:16:45,59.38,57.48,64.67,395.44,393.13,395.44,227.64,228.69,227.39,12,11.18,12.99,6.26,6.92,6.93,13.54,13.15,14.72,1.74,1.79,1.33,1.74,1.79,1.33,5644.07,2298.02,6323.56,102.48,90.55,24.41
2016-08-15 09:16:50,59.37,57.65,64.59,396.29,393.59,396.35,228.26,229.04,227.71,11.98,11.21,12.97,6.29,6.92,6.89,13.53,13.17,14.69,1.67,1.64,1.33,1.67,1.64,1.33,5644.11,2298.03,6323.6,101.80,91.35,24.40

2016-08-15 09:16:55,59.51,57.9,64.83,395.55,393.33,395.44,227.59,228.81,227.51,12.08,11.25,13.06,6.24,7.01,6.96,13.59,13.26,14.8,1.85,1.89,1.43,1.85,1.89,1.43,5644.14,2298.05,6323.64,102.3,90.86,24.44
2016-08-15 09:17:00,59.67,58.03,64.88,395.09,392.82,395.1,227.44,228.45,227.26,12.08,11.28,13.6,6.26,6.96,6.94,13.61,13.25,14.74,1.79,1.92,1.54,1.79,1.92,1.54,5644.19,2298.07,6323.7,101.96,90.17,24.43
2016-08-15 09:17:05,59.64,58.04,64.83,395.91,393.53,396.04,228.228.88,227.69,12.05,11.29,13.04,6.3,7.01,6.95,13.59,13.29,14.78,1.85,1.97,1.49,1.85,1.97,1.49,5644.23,2298.08,6323.74,101.67,90.30,24.44
2016-08-15 09:17:10,59.81,57.85,64.77,395.68,393.12,395.75,227.89,228.68,227.46,12.11,11.3,13.03,6.3,6.96,6.99,13.66,13.27,14.78,1.77,1.87,1.38,1.77,1.87,1.38,5644.27,2298.1,6323.78,101.90,90.25,24.40
2016-08-15 09:17:15,59.86,57.84,64.75,395.87,393.41,395.92,227.97,228.83,227.61,12.11,11.28,12.99,6.27,6.9,6.93,13.63,13.22,14.72,1.67,1.67,1.34,1.67,1.67,1.34,5644.31,2298.12,6323.83,101.83,90.28,24.43
2016-08-15 09:17:20,59.7,57.7,64.61,396.18,393.39,396.27,228.22,228.92,227.64,12.1,11.25,12.96,6.33,6.95,7,13.65,13.22,14.73,1.77,1.82,1.36,1.77,1.82,1.36,5644.35,2298.14,6323.88,101.10,90.97,24.42
2016-08-15 09:17:25,59.72,57.64,64.79,395.61,393.43,395.68,227.96,228.94,227.25,12.07,11.22,12.94,6.34,6.96,7.01,13.63,13.2,14.72,1.72,1.87,1.58,1.72,1.87,1.58,5644.39,2298.15,6323.92,102.97,91.7,24.39
2016-08-15 09:17:30,59.77,57.51,64.85,395.98,393.43,396.13,228.29,229.03,227.3,12.09,11.2,12.96,6.27,6.93,6.99,13.62,13.17,14.72,1.67,1.7,1.62,1.67,1.7,1.62,5644.43,2298.17,6323.97,101.59,91.50,24.46
2016-08-15 09:17:35,59.86,57.62,64.85,395.72,393.3,395.84,228.08,228.92,227.21,12.14,11.21,12.99,6.24,6.89,6.95,13.65,13.16,14.73,1.69,1.69,1.32,1.69,1.69,1.32,5644.47,2298.19,6324.01,101.84,91.7,24.40
2016-08-15 09:17:40,59.95,57.66,64.94,395.11,392.63,395.18,227.73,228.55,226.82,12.15,11.23,13.03,6.28,6.99,7,13.68,13.23,14.79,1.68,1.62,1.5,1.68,1.62,1.5,5644.52,2298.21,6324.07,102.17,91.23,24.43
2016-08-15 09:17:45,59.79,57.65,65.395.61,393.26,395.67,227.96,228.9,227.16,12.1,11.17,12.97,6.29,6.98,7.04,13.64,13.17,14.75,1.68,1.65,1.32,1.68,1.65,1.32,5644.56,2298.22,6324.11,102.22,90.28,24.45
2016-08-15 09:17:50,59.13,57.17,64.27,394.37,392.24,394.38,227.18,228.2,226.61,11.96,11.13,12.86,6.21,6.83,6.85,13.48,13.07,14.57,1.81,1.86,1.36,1.81,1.86,1.36,5644.59,2298.24,6324.15,102.8,90.90,24.45
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2016-08-15 09:22:15,59.05,57.41,64.39,394.35,391.95,394.59,227.17,228.06,226.7,11.86,11.14,12.89,6.22,6.93,6.85,13.39,13.12,14.6,1.73,1.78,1.31,1.73,1.78,1.31,5646.77,2299.14,6326.64,102.47,91.7,24.46
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2016-08-15 09:22:40,65.54,63.29,70.44,394.42,392.03,394.54,226.86,228.88,226.25,13.34,12.61,14.24,6.49,7.08,7.03,14.84,14.46,15.88,1.7,1.84,1.65,1.7,1.84,1.65,5646.98,2299.22,6326.88,102.95,90.11,24.52
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2016-08-15 09:22:50,62.06,60.32,67.49,394.42,392.44,394.43,226.96,228.38,226.82,12.76,11.95,13.77,6.3,7.04,6.97,14.23,13.87,15.44,1.88,1.91,1.44,1.88,1.91,1.44,5647.06,2299.25,6326.97,101.93,90.36,24.47
2016-08-15 09:22:55,60.74,58.86,66.01,395.35,392.76,395.64,227.81,228.61,227.16,12.44,11.58,13.4,6.27,7.06,7.02,13.93,13.56,15.13,1.75,1.93,1.56,1.75,1.93,1.56,5647.11,2299.28,6327.02,101.60,90.6,24.51
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2016-08-15 09:23:10,59.26,57.38,64.6,395.392.73,395.11,227.46,228.53,227.06,11.94,11.16,12.95,6.23,6.93,6.92,13.47,13.14,14.68,1.65,1.72,1.61,1.65,1.72,1.61,5647.24,2299.32,6327.16,102.36,91.1,24.48
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2016-08-15 09:23:20,58.91,57.28,64.26,395.05,392.54,395.13,227.49,228.57,226.92,11.89,11.17,12.89,6.21,6.84,6.8,13.41,13.1,14.57,1.68,1.66,1.39,1.68,1.66,1.39,5647.31,2299.36,6327.24,102.65,91.49,24.55
2016-08-15 09:23:25,59.15,57.17,64.33,395.04,392.98,395.17,227.46,228.63,227.16,11.87,11.16,12.88,6.21,6.86,6.81,13.4,13.1,14.57,1.83,1.93,1.39,1.83,1.93,1.39,5647.36,2299.38,6327.3,101.86,90.72,24.44
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2016-08-15 09:23:35,58.9,57.18,64.2,395.17,392.89,395.31,227.55,228.73,227.08,11.85,11.14,12.85,6.21,6.84,6.8,13.38,13.07,14.54,1.78,1.82,1.34,1.78,1.82,1.34,5647.43,2299.41,6327.38,101.46,90.55,24.55
2016-08-15 09:23:40,58.82,57.15,64.16,394.97,392.72,395.02,227.4,228.61,226.98,11.88,11.11,12.88,6.17,6.88,6.85,13.39,13.07,14.59,1.83,1.94,1.42,1.83,1.94,1.42,5647.48,2299.43,6327.44,102.55,90.70,24.47
2016-08-15 09:23:45,58.99,57.3,64.36,394.65,392.33,394.7,227.2,228.41,226.77,11.85,11.11,12.86,6.18,6.87,6.85,13.36,13.06,14.57,1.68,1.61,1.49,1.68,1.61,1.49,5647.51,2299.44,6327.48,102.22,90.72,24.54
2016-08-15 09:23:50,58.92,57.36,64.35,394.54,392.13,394.6,227.19,228.29,226.67,11.86,11.1,12.87,6.17,6.91,6.86,13.37,13.08,14.59,1.75,1.79,1.33,1.75,1.79,1.33,5647.55,2299.46,6327.52,101.40,91.45,24.56
2016-08-15 09:23:55,58.91,57.26,64.26,394.89,392.51,394.95,227.35,228.54,226.88,11.86,11.11,12.88,6.19,6.93,6.88,13.38,13.1,14.61,1.79,1.82,1.38,1.79,1.82,1.38,5647.6,2299.48,6327.57,101.27,90.38,24.52
2016-08-15 09:24:00,59.57,35.64,35,394.93,392.4,395,227.46,228.5,226.81,11.92,11.15,12.88,6.2,6.9,6.87,13.44,13.11,14.6,1.88,1.95,1.43,1.88,1.95,1.43,5647.63,2299.49,6327.61,102.40,91.3,24.56
2016-08-15 09:24:05,59.14,57.24,64.12,394.44,392.02,394.51,227.17,228.19,226.61,11.83,11.13,12.87,6.2,6.88,6.82,13.36,13.09,14.57,1.69,1.66,1.35,1.69,1.66,1.35,5647.67,2299.51,6327.65,102.98,90.86,24.56
2016-08-15 09:24:10,58.93,57.13,63.94,394.61,392.22,394.66,227.22,228.34,226.71,11.91,11.15,12.82,6.19,6.82,6.81,13.43,13.07,14.52,1.79,1.93,1.47,1.79,1.93,1.47,5647.72,2299.53,6327.71,102.31,90.5,24.50
2016-08-15 09:24:15,58.93,57.11,63.88,394.09,391.67,394.2,226.96,227.97,226.46,11.89,11.12,12.8,6.13,6.75,6.76,13.38,13.01,14.48,1.72,1.89,1.61,1.72,1.89,1.61,5647.75,2299.54,6327.75,102.6,90.89,24.52
2016-08-15 09:24:20,59.57,11.63,98,393.95,391.57,394.04,226.85,227.91,226.4,11.9,11.1,12.77,6.14,6.73,6.78,13.39,12.98,14.46,1.7,1.8,1.65,1.7,1.8,1.65,5647.79,2299.56,6327.79,101.21,91.22,24.55

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2016-08-15 09:24:30,59.78,57.8,64.67,393.77,391.5,393.64,226.62,227.9,226.26,11.89,11.15,12.79,6.22,6.81,6.83,13.42,13.06,14.5,1.67,1.66,1.54,1.67,1.66,1.54,5647.87,2299.59,6327.89,102.45,91.76,24.47
2016-08-15 09:24:35,64.18,62.34,68.97,393.74,391.77,393.93,226.68,227.88,226.53,12.78,12.13,13.79,6.4,7.05,6.94,14.3,14.03,15.44,1.94,2.01,1.44,1.94,2.01,1.44,5647.91,2299.61,6327.93,101.47,91.74,24.47
2016-08-15 09:24:40,63.14,61.62,68.22,393.77,391.47,393.94,227.11,227.61,226.22,13.04,12.33,13.97,6.4,7.07,6.99,14.53,14.21,15.62,1.76,1.95,1.67,1.76,1.95,1.67,5647.96,2299.63,6327.99,103.79,90.69,24.50
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2016-08-15 09:24:55,59.48,57.77,64.44,393.99,391.86,394.05,226.98,227.92,226.46,11.97,11.26,12.92,6.23,6.82,6.78,13.49,13.17,14.59,1.73,1.78,1.67,1.73,1.78,1.67,5648.08,2299.68,6328.13,103.29,91.9,24.54
2016-08-15 09:25:00,59.11,57.55,64.06,394.4,391.78,394.48,227.32,228.02,226.46,12,11.26,12.91,6.11,6.76,6.72,13.46,13.13,14.55,1.77,1.93,1.69,1.77,1.93,1.69,5648.12,2299.69,6328.17,102.20,90.90,24.48
2016-08-15 09:25:05,59.04,57.45,64.07,393.91,391.64,393.98,226.92,227.85,226.37,11.93,11.22,12.85,6.09,6.7,6.69,13.4,13.07,14.49,1.84,2,1.59,1.84,2,1.59,5648.17,2299.71,6328.22,102.38,91.98,24.44
2016-08-15 09:25:10,59.08,57.41,64.08,394.14,391.8,394.14,227.08,227.97,226.41,11.9,11.21,12.85,6.14,6.77,6.73,13.39,13.09,14.5,1.87,1.92,1.44,1.87,1.92,1.44,5648.2,2299.73,6328.27,102.87,91.41,24.57
2016-08-15 09:25:15,59.19,57.44,64.13,395.12,392.65,395.04,227.64,228.57,226.82,11.98,11.23,12.86,6.17,6.79,6.79,13.47,13.13,14.54,1.8,1.93,1.73,1.8,1.93,1.73,5648.24,2299.74,6328.31,103.61,90.79,24.48
2016-08-15 09:25:20,59.11,57.42,64.08,394.96,392.5,394.92,227.58,228.46,226.76,11.98,11.23,12.86,6.16,6.8,6.79,13.48,13.13,14.54,1.77,1.93,1.68,1.77,1.93,1.68,5648.27,2299.76,6328.35,102.79,90.62,24.56
2016-08-15 09:25:25,59.04,57.37,64.03,395.01,392.56,395.227.6,228.49,226.8,11.95,11.19,12.82,6.21,6.81,6.82,13.47,13.1,14.52,1.86,1.75,1.52,1.86,1.75,1.52,5648.32,2299.78,6328.4,103.98,91.52,24.48
2016-08-15 09:25:30,59.16,57.24,64.09,394.81,392.44,395.06,227.52,228.46,226.77,11.88,11.19,12.86,6.18,6.84,6.77,13.39,13.11,14.53,1.88,2.04,1.58,1.88,2.04,1.58,5648.36,2299.79,6328.44,102.81,90.46,24.50
2016-08-15 09:25:35,58.92,57.22,64.05,394.8,392.38,394.91,227.44,228.51,226.67,11.9,11.17,12.82,6.16,6.78,6.75,13.4,13.06,14.49,1.85,1.91,1.45,1.85,1.91,1.45,5648.41,2299.82,6328.5,103.3,91.21,24.46
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2016-08-15 09:25:45,58.89,57.28,64.11,394.73,392.45,394.88,227.4,228.47,226.74,11.86,11.13,12.83,6.22,6.89,6.82,13.39,13.09,14.53,1.77,1.78,1.69,1.77,1.78,1.69,5648.48,2299.84,6328.58,103.8,90.85,24.45
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2016-08-15 09:25:55,58.71,57.13,64.11,394.81,392.31,394.8,227.38,228.56,226.58,11.87,11.14,12.86,6.19,6.88,6.79,13.39,13.09,14.54,1.92,2.02,1.56,1.92,2.02,1.56,5648.56,2299.88,6328.68,102.33,91.18,24.48
2016-08-15 09:26:00,58.56,57.06,64.08,395.14,392.66,395.27,227.62,228.73,226.83,11.85,11.12,12.86,6.17,6.88,6.78,13.36,13.08,14.54,1.91,2.06,1.61,1.91,2.06,1.61,5648.6,2299.9,6328.72,103.24,90.18,24.48
2016-08-15 09:26:05,58.59,57.09,64.12,395.26,393.06,395.34,227.61,228.94,226.99,11.86,11.11,12.87,6.12,6.85,6.76,13.35,13.05,14.54,1.84,1.81,1.5,1.84,1.81,1.5,5648.65,2299.92,6328.77,102.96,90.85,24.51
2016-08-15 09:26:10,58.5,57.09,63.98,395.21,392.33,395.34,227.76,228.64,226.69,11.86,11.1,12.85,6.11,6.87,6.77,13.34,13.05,14.53,1.79,1.77,1.42,1.79,1.77,1.42,5648.68,2299.93,6328.81,103.96,90.23,24.49
2016-08-15 09:26:15,58.78,57.16,64.06,395.23,392.86,395.49,227.67,228.78,227.03,11.82,11.11,12.86,6.16,6.9,6.79,13.33,13.08,14.54,1.8,1.72,1.63,1.8,1.72,1.63,5648.72,2299.95,6328.85,102.10,90.31,24.58
2016-08-15 09:26:20,58.69,57.16,64.05,394.86,392.43,395.227.41,228.57,226.76,11.84,11.13,12.86,6.17,6.89,6.79,13.35,13.09,14.54,1.77,1.9,1.73,1.77,1.9,1.73,5648.77,2299.97,6328.91,103.26,90.79,24.52
2016-08-15 09:26:25,58.66,57.12,63.89,394.8,392.29,395.21,227.54,228.41,226.8,11.88,11.13,12.81,6.14,6.81,6.78,13.38,13.05,14.49,1.75,1.77,1.75,1.75,1.77,1.75,5648.8,2299.98,6328.95,103.57,90.30,24.51

Priedas Nr.4

T-11 10 kW savų reikmių transformatoriaus matavimo metu gauti duomenys

Laikas,"Srovė fazė A, A","Srovė fazė B, A","Srovė fazė C, A","Įtampa A-B, V","Įtampa B-C, V","Įtampa C-A, V","Įtampa A-N, V","Įtampa B-N, V","Įtampa C-N, V","Aktyvioji galia fazė A, kW","Aktyvioji galia fazė B, kW","Aktyvioji galia fazė C, kW","Reaktyvioji galia fazė A, kVAr","Reaktyvioji galia fazė B, kVAr","Reaktyvioji galia fazė C, kVAr","Suminė galia fazė A, kVA","Suminė galia fazė B, kVA","Suminė galia fazė C, kVA","THD/thd Įtampos fazė A-N, %","THD/thd Įtampos fazė B-N, %","THD/thd Įtampos fazė C-N, %","THD/thd Įtampos fazė A-B, %","THD/thd Įtampos fazė B-C, %","THD/thd Įtampos fazė C-A, %","Bendra aktyvioji energija, kWh","Bendra reaktyvioji energija, kVArh","Suminė energija, kVAh","Apvijų temperatūra, °C","Alyvos temperatūra, °C","Aplinkos temperatūra, °C"

2016-08-11 10:30:00,143.12,132.53,138.84,403.05,402.93,404.45,231.63,232.33,234.91,18.16,16.68,16.24,27.9,26.07,28.48,33.29,30.95,32.78,1.12,1.19,1.27,1.12,1.19,1.27,247113.23,234683.98,349477.57,95.89,83.42,23.10
2016-08-11 10:30:05,143.12,132.61,138.91,402.01,401.85,403.39,231.04,231.69,234.31,18.22,16.74,16.35,27.63,25.84,28.22,33.09,30.79,32.61,1.11,1.29,1.31,1.11,1.29,1.31,247113.31,234684.13,349477.76,95.74,83.80,23.12
2016-08-11 10:30:10,144.132.39,139.05,401.88,401.59,403.36,231.02,231.54,234.24,18.34,16.8,16.15,27.88,25.75,28.32,33.37,30.75,32.6,1.12,1.29,1.29,1.12,1.29,1.29,247113.39,234684.26,349477.92,95.61,83.26,23.11
2016-08-11 10:30:15,143.15,132.3,138.46,400.82,400.64,402.25,230.3,230.95,233.74,18.38,16.87,16.45,27.29,25.45,27.87,32.9,30.53,32.36,1.03,1.2,1.27,1.03,1.2,1.27,247113.49,234684.38,349478.08,96.77,83.79,23.11
2016-08-11 10:30:20,144.21,132.94,139.85,402.08,401.98,403.57,231.01,231.78,234.46,18.41,16.86,16.43,27.92,26.01,28.52,33.45,31,32.91,1.08,1.22,1.3,1.08,1.22,1.3,247113.57,234684.53,349478.24,96.71,83.17,23.10
2016-08-11 10:30:25,144.33,132.91,139.65,402.63,402.45,404.18,231.38,232.05,234.76,18.41,16.83,16.24,27.87,25.76,28.37,33.4,30.77,32.69,1.08,1.21,1.24,1.08,1.21,1.24,247113.65,234684.66,349478.4,95.21,83.64,23.10
2016-08-11 10:30:30,144.5,132.83,139.36,402.71,402.54,404.18,231.43,232.11,234.76,18.37,16.88,16.35,27.89,25.92,28.4,33.39,30.93,32.77,1.17,1.44,1.36,1.17,1.44,1.36,247113.74,234684.8,349478.56,95.83,83.52,23.13
2016-08-11 10:30:35,143.19,132.73,138.91,401.44,401.34,402.89,230.71,231.35,234.07,18.23,16.74,16.32,27.5,25.66,28.06,32.99,30.64,32.47,1.18,1.38,1.35,1.18,1.38,1.35,247113.82,234684.93,349478.72,95.22,83.4,23.10
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2016-08-11 10:35:10,236.57,225.42,229.83,400.66,400.83,402.33,230.84,229.88,234.33,40.82,38.64,38.99,30.53,28.96,31.78,50.98,48.29,50.3,1.27,1.51,1.38,1.27,1.51,1.38,247119.41,234692.53,349488.26,96.92,83.66,23.15
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2016-08-11 10:37:20,234.45,226.18,228.49,399.87,399.93,401.25,230.16,229.17,234.13,45.48,43.7,44.19,30.95,29.79,31.96,55.01,52.89,54.54,1.15,1.32,1.28,1.15,1.32,1.28,247125.81,234696.67,349495.87,96.55,83.66,23.15
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2016-08-11 10:37:55,141.29,133.29,139.52,402.4,402.54,403.67,231.55,230.73,235.54,18.39,16.67,16.88,27.47,26.3,28.62,33.06,31.14,33.23,1.22,1.35,1.3,1.22,1.35,1.3,247126.72,234697.66,349497.25,96.81,83.48,23.13
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2016-08-11 10:40:20,143.6,134.55,140.11,402.27,402.25,403.58,231.26,231.51,234.74,18.29,16.88,16.62,27.77,26.21,28.43,33.25,31.17,32.94,1.18,1.34,1.3,1.18,1.34,1.3,247129.22,234701.68,349502.02,96.73,84.29,23.17
2016-08-11 10:40:25,143.23,134.35,139.2,401.86,401.73,403.07,231.02,231.22,234.45,18.18,16.88,16.5,27.61,25.97,28.12,33.06,30.98,32.61,1.01,1.1,1.21,1.01,1.1,1.21,247129.31,234701.81,349502.18,97.11,84.18,23.16
2016-08-11 10:40:30,144.83,135.32,141.47,403.87,403.82,405.17,232.18,232.49,235.6,18.41,16.97,16.67,28.28,26.64,28.92,33.74,31.58,33.38,1.1,1.26,1.27,1.1,1.26,1.27,247129.39,234701.95,349502.34,96.95,84.47,23.18
2016-08-11 10:40:35,145.05,135.05,141.49,404.03,404.02,405.39,232.29,232.57,235.75,18.31,16.74,16.52,28.22,26.58,29.33,64,31.41,33.37,1.06,1.15,1.23,1.06,1.15,1.23,247129.47,234702.1,349502.5,96.59,84.7,23.19
2016-08-11 10:40:40,144.41,134.99,140.79,403.52,403.45,404.8,231.98,232.25,235.42,18.02,16.62,16.3,28.1,26.47,28.71,33.38,31.25,33.01,1.05,1.1,1.23,1.05,1.1,1.23,247129.57,234702.22,349502.66,97.34,84.58,23.27
2016-08-11 10:40:45,144.04,134.59,140.49,403.74,403.65,404.98,232.09,232.35,235.56,18.35,16.96,16.66,28.1,26.49,28.72,33.56,31.46,33.21,1.37,1.48,1.39,1.37,1.48,1.39,247129.65,234702.37,349502.82,96.84,84.84,23.24
2016-08-11 10:40:50,144.17,134.62,141.06,403.17,403.15,404.49,231.84,231.99,235.25,18.23,16.7,16.49,28.05,26.46,28.8,33.45,31.29,33.18,1.32,1.42,1.34,1.32,1.42,1.34,247129.73,234702.51,349502.98,96.64,84.36,23.27
2016-08-11 10:40:55,144.34,134.87,140.79,402.9,402.96,404.32,231.71,231.83,235.18,18.32,16.74,16.52,27.92,26.3,28.7,33.39,31.17,33.12,1.25,1.36,1.32,1.25,1.36,1.32,247129.82,234702.64,349503.14,96.5,84.13,23.23
2016-08-11 10:41:00,143.91,134.7,140.62,402.96,402.94,404.29,231.73,231.85,235.15,18.14,16.66,16.4,27.89,26.28,28.57,33.27,31.12,32.94,1.23,1.38,1.33,1.23,1.38,1.33,247129.9,234702.78,349503.3,96.65,84.50,23.28
2016-08-11 10:41:05,144.13,134.5,140.26,402.29,402.26,403.64,231.35,231.45,234.78,18.49,17,16.72,27.91,26.25,28.6,33.48,31.27,33.12,1.33,1.47,1.4,1.33,1.47,1.4,247130,234702.91,349503.46,97.98,84.55,23.25
2016-08-11 10:41:10,143.64,134.2,140.36,403.03,403.04,404.39,231.76,231.89,235.24,18.26,16.78,16.54,27.85,26.26,28.54,33.3,31.17,32.99,1.32,1.44,1.37,1.32,1.44,1.37,247130.08,234703.06,349503.62,97.42,84.84,23.22
2016-08-11 10:41:15,144.3,134.41,140.86,402.31,402.36,403.73,231.36,231.46,234.88,18.36,16.8,16.59,27.73,26.12,28.5,33.25,31.06,32.97,1.32,1.45,1.37,1.32,1.45,1.37,247130.16,234703.2,349503.81,97.41,84.45,23.27
2016-08-11 10:41:20,144.64,134.76,140.78,402.45,402.42,403.9,231.46,231.51,234.94,18.38,16.82,16.49,27.81,26.06,28.5,33.34,31.01,32.92,1.33,1.46,1.41,1.33,1.46,1.41,247130.26,234703.33,349503.97,97.33,84.51,23.22

Priedas Nr.5

Savų reikmių transformatorių fazinių įtampų A-N duomenys

Įtampa A-N, V T-1 10kW	Voltage A-N, V T-21 25kW	Voltage B-N, V T-22 50kW
227,3	226,11	214,16
227,63	226,15	214,22
227,72	226,22	214,31
227,8	226,38	214,36
227,81	226,44	214,37
227,97	226,45	214,47
227,99	226,49	214,51
228,12	226,51	214,59
228,15	226,53	214,65
228,16	226,55	214,86
228,19	226,62	214,89
228,23	226,65	214,9
228,24	226,67	214,97
228,27	226,68	215
228,3	226,68	215,16
228,34	226,68	215,19
228,41	226,7	215,21
228,55	226,72	215,25
228,55	226,73	215,27
228,56	226,73	215,28
228,61	226,73	215,3
228,62	226,73	215,31
228,65	226,73	215,31
228,74	226,74	215,32
228,77	226,75	215,34
228,77	226,77	215,35
228,78	226,78	215,42
228,8	226,8	215,45
228,84	226,81	215,47
228,89	226,82	215,49
228,89	226,84	215,51
228,9	226,84	215,54
228,9	226,85	215,64
228,92	226,85	215,73
228,93	226,85	215,75
228,97	226,86	215,77
228,98	226,86	215,79
228,98	226,88	215,87
229	226,88	216,1
229	226,88	216,12
229,1	226,88	216,28
229,1	226,89	216,3

229,1	226,89	216,3
229,12	226,9	216,4
229,13	226,9	216,4
229,13	226,92	216,41
229,14	226,92	216,42
229,14	226,93	216,44
229,15	226,93	216,44
229,15	226,94	216,45
229,18	226,95	216,46
229,19	226,96	216,48
229,19	226,96	216,51
229,21	226,96	216,51
229,22	226,98	216,58
229,22	226,98	216,74
229,23	226,98	216,75
229,23	226,98	216,75
229,24	226,99	216,79
229,25	226,99	216,82
229,25	227	216,84
229,26	227,1	216,85
229,3	227,1	216,9
229,3	227,1	216,97
229,39	227,11	216,98
229,39	227,11	217,13
229,39	227,13	217,14
229,4	227,15	217,16
229,42	227,15	217,16
229,42	227,15	217,21
229,42	227,15	217,27
229,44	227,16	217,28
229,48	227,16	217,29
229,52	227,17	217,3
229,52	227,17	217,32
229,52	227,17	217,36
229,52	227,17	217,37
229,54	227,17	217,38
229,54	227,17	217,38
229,54	227,17	217,38
229,55	227,18	217,39
229,57	227,18	217,4
229,57	227,19	217,4
229,59	227,19	217,46
229,6	227,19	217,47
229,6	227,19	217,49
229,6	227,19	217,49
229,6	227,2	217,5
229,61	227,2	217,57
229,62	227,2	217,58

229,62	227,21	217,58
229,63	227,21	217,59
229,63	227,22	217,6
229,64	227,22	217,63
229,66	227,22	217,64
229,67	227,23	217,66
229,69	227,23	217,66
229,69	227,23	217,66
229,7	227,24	217,68
229,7	227,24	217,69
229,71	227,24	217,69
229,73	227,24	217,69
229,73	227,24	217,7
229,73	227,24	217,7
229,75	227,24	217,7
229,78	227,24	217,72
229,79	227,25	217,72
229,79	227,25	217,72
229,8	227,25	217,72
229,82	227,26	217,73
229,83	227,26	217,74
229,83	227,26	217,75
229,85	227,26	217,76
229,86	227,27	217,78
229,86	227,27	217,8
229,87	227,27	217,8
229,89	227,28	217,81
229,92	227,28	217,81
229,99	227,28	217,82
229,99	227,29	217,84
230	227,29	217,84
230,1	227,29	217,86
230,11	227,3	217,87
230,11	227,3	217,89
230,12	227,3	217,9
230,13	227,31	217,92
230,13	227,31	217,92
230,14	227,31	217,93
230,16	227,32	217,94
230,16	227,32	217,95
230,19	227,33	217,96
230,19	227,33	217,97
230,2	227,33	217,97
230,21	227,33	217,97
230,21	227,34	217,98
230,23	227,34	217,98
230,26	227,34	218
230,26	227,34	218

230,28	227,35	218,1
230,28	227,35	218,1
230,29	227,36	218,1
230,3	227,36	218,12
230,3	227,36	218,13
230,3	227,37	218,14
230,32	227,38	218,14
230,33	227,38	218,14
230,34	227,38	218,14
230,35	227,38	218,14
230,36	227,4	218,15
230,39	227,4	218,16
230,39	227,41	218,16
230,39	227,41	218,16
230,39	227,42	218,17
230,39	227,43	218,17
230,41	227,43	218,18
230,43	227,43	218,19
230,43	227,43	218,19
230,43	227,44	218,19
230,44	227,44	218,19
230,45	227,44	218,2
230,45	227,45	218,2
230,46	227,45	218,2
230,48	227,46	218,2
230,48	227,46	218,2
230,49	227,46	218,21
230,49	227,46	218,22
230,5	227,46	218,24
230,5	227,46	218,24
230,51	227,47	218,25
230,51	227,47	218,25
230,51	227,47	218,25
230,52	227,48	218,26
230,53	227,49	218,26
230,55	227,49	218,27
230,55	227,49	218,28
230,56	227,49	218,29
230,57	227,49	218,29
230,57	227,49	218,29
230,58	227,5	218,29
230,58	227,5	218,3
230,6	227,5	218,31
230,6	227,5	218,31
230,6	227,5	218,32
230,6	227,51	218,33
230,6	227,51	218,33
230,61	227,52	218,33

230,62	227,52	218,33
230,63	227,53	218,34
230,64	227,53	218,34
230,66	227,54	218,35
230,66	227,54	218,35
230,68	227,55	218,35
230,69	227,55	218,36
230,69	227,55	218,37
230,69	227,56	218,38
230,7	227,56	218,38
230,7	227,56	218,39
230,71	227,57	218,4
230,72	227,57	218,41
230,72	227,57	218,41
230,72	227,58	218,42
230,72	227,58	218,42
230,75	227,58	218,42
230,76	227,59	218,43
230,77	227,59	218,43
230,78	227,59	218,43
230,78	227,59	218,43
230,8	227,6	218,43
230,8	227,6	218,44
230,82	227,6	218,45
230,82	227,6	218,45
230,83	227,6	218,45
230,84	227,61	218,46
230,84	227,61	218,46
230,84	227,62	218,47
230,84	227,63	218,48
230,85	227,63	218,48
230,85	227,63	218,48
230,87	227,63	218,48
230,89	227,63	218,48
230,9	227,63	218,49
230,9	227,63	218,5
230,9	227,64	218,5
230,92	227,64	218,5
230,93	227,64	218,5
230,94	227,64	218,51
230,94	227,65	218,51
230,94	227,65	218,51
230,94	227,65	218,51

Priedas Nr.2

T-22 50 kW savų reikmių transformatoriaus matavimo metu gauti duomenys

Laikas,"Srovė fazė A, A","Srovė fazė B, A","Srovė fazė C, A","Įtampa A-B, V","Įtampa B-C, V","Įtampa C-A, V","Įtampa A-N, V","Įtampa B-N, V","Įtampa C-N, V","Aktyvioji galia fazė A, kW","Aktyvioji galia fazė B, kW","Aktyvioji galia fazė C, kW","Reaktyvioji galia fazė A, kVAr","Reaktyvioji galia fazė B, kVAr","Reaktyvioji galia fazė C, kVAr","Suminė galia fazė A, kVA","Suminė galia fazė B, kVA","Suminė galia fazė C, kVA","THD/thd Įtampos fazė A-N, %","THD/thd Įtampos fazė B-N, %","THD/thd Įtampos fazė C-N, %","THD/thd Įtampos fazė A-B, %","THD/thd Įtampos fazė B-C, %","THD/thd Įtampos fazė C-A, %","Bendra aktyvioji energija, kWh","Bendra reaktyvioji energija, kVArh","Suminė energija, kVAh","Apvių temperatūra, °C","Alyvos temperatūra, °C","Aplinkos temperatūra, °C"

2016-08-15 14:40:00,309.89,317.38,285.45,381.71,379.63,376.92,216.97,217.94,222.56,60.33,60.16,56.59,38.97,42.74,38.35,71.82,73.8,68.36,0.93,0.81,0.84,0.93,0.81,0.84,7206.53,5126.15,8874.58,106.31,99.0,26.32
2016-08-15 14:40:05,308.14,315.37,285.94,382.62,380.78,378.33,217.94,218.45,223.06,55.72,55.26,52.09,37.49,41.13,36.8,67.16,68.89,63.78,0.98,0.83,0.84,0.98,0.83,0.84,7206.75,5126.31,8874.86,106.59,99.60,26.32
2016-08-15 14:40:10,304.65,311.75,282.53,382.84,381.378.6,218.14,218.56,223.17,54.72,54.17,51.06,37.19,40.84,36.48,66.16,67.84,62.75,0.95,0.79,0.81,0.95,0.79,0.81,7206.92,5126.42,8875.06,106.99,99.61,26.35
2016-08-15 14:40:15,302.69,309.76,280.51,382.41,380.59,378.12,217.9,218.33,222.87,54.46,53.93,50.77,37.07,40.78,36.38,65.88,67.61,62.46,0.96,0.81,0.83,0.96,0.81,0.83,7207.08,5126.53,8875.26,105.42,99.83,26.41
2016-08-15 14:40:20,301.76,309.21,279.8,382.35,380.57,378.07,217.87,218.31,222.85,54.33,53.81,50.65,37.02,40.75,36.37,65.74,67.5,62.35,0.94,0.77,0.84,0.94,0.77,0.84,7207.29,5126.69,8875.52,105.10,99.45,26.35
2016-08-15 14:40:25,289.19,296.52,266.32,382.49,380.89,378.48,218.14,218.49,222.89,52.47,51.69,48.36,35.01,39.11,34.42,63.08,64.82,59.36,0.95,0.79,0.84,0.95,0.79,0.84,7207.45,5126.8,8875.72,106.17,99.24,26.42
2016-08-15 14:40:30,289.08,296.49,266.23,382.48,380.77,378.38,218.12,218.46,222.81,52.45,51.63,48.31,35.39,1.34,37.63,05.64,76.59,28.0,98,0.82,0.88,0.98,0.82,0.88,7207.61,5126.91,8875.9,105.82,99.44,26.41
2016-08-15 14:40:35,288.82,296.13,265.89,382.57,380.98,378.59,218.2,218.54,222.94,52.33,51.49,48.22,35.02,39.11,34.39,62.97,64.66,59.23,0.95,0.79,0.87,0.95,0.79,0.87,7207.81,5127.05,8876.15,106.90,99.61,26.30
2016-08-15 14:40:40,287.64,295.08,265.1,382.68,381.05,378.66,218.26,218.6,222.97,52.51,22.47,93.34,96.39,04.34,38.62,66.64,4.58,99,0.96,0.79,0.87,0.96,0.79,0.87,7207.96,5127.16,8876.34,106.19,99.77,26.45
2016-08-15 14:40:45,250.94,257.92,232.67,385.75,384.53,382.06,220.42,220.74,224.37,45.89,45.45,42.54,28.28,31.88,28.08,53.9,55.52,50.97,0.98,0.81,0.88,0.98,0.81,0.88,7208.11,5127.27,8876.53,106.40,99.4,26.36
2016-08-15 14:40:50,245.17,252.23,227.77,385.67,384.49,381.96,220.35,220.74,224.33,46.06,45.64,42.7,28.24,31.89,28.06,54.02,55.68,51.09,0.96,0.83,0.84,0.96,0.83,0.84,7208.3,5127.4,8876.76,105.30,99.90,26.43
2016-08-15 14:40:55,246.4,253.34,228.56,385.83,384.58,382.09,220.44,220.8,224.4,48.36,48.12,45.2,30.27,33.65,30.02,57.05,58.72,54.26,0.99,0.85,0.86,0.99,0.85,0.86,7208.44,5127.49,8876.92,105.70,99.67,26.30
2016-08-15 14:41:00,260.36,267.21,243.78,384.9,383.46,380.82,219.67,220.2,223.86,48.06,47.88,45.08,30.22,33.5,29.92,56.77,58.43,54.11,0.97,0.83,0.86,0.97,0.83,0.86,7208.57,5127.57,8877.08,105.10,99.22,26.30
2016-08-15 14:41:05,261.22,268.2,243.89,384.87,383.41,380.76,219.64,220.2,223.81,48.71,48.48,45.59,30.32,33.72,30.03,57.38,59.06,54.59,0.97,0.81,0.86,0.97,0.81,0.86,7208.76,5127.7,8877.31,106.54,99.82,26.43
2016-08-15 14:41:10,267.01,274.1,249.57,384.55,382.98,380.3,219.32,219.99,223.65,49.35,49.23,46.28,30.49,33.86,30.24,58.01,59.75,55.28,0.99,0.82,0.89,0.99,0.82,0.89,7208.9,5127.8,8877.48,105.53,99.77,26.42
2016-08-15 14:41:15,229.6,236.43,214.43,386.98,385.9,383.37,221.31,221.55,224.94,43.07,42.78,40.12,26.49,29.8,26.36,50.56,52.14,48.01,0.98,0.83,0.88,0.98,0.83,0.88,7209.05,5127.89,8877.65,105.15,99.48,26.34
2016-08-15 14:41:20,226.76,233.65,211.93,387.38,386.34,383.8,221.59,221.79,225.16,42.55,42.25,39.62,26.48,29.79,26.34,50.11,51.69,47.58,0.95,0.81,0.87,0.95,0.81,0.87,7209.23,5128.8877.87,105.72,99.45,26.44
2016-08-15 14:41:25,224.68,231.63,209.77,387.46,386.37,383.85,221.66,221.81,225.16,42.15,41.81,39.18,26.41,29.72,26.24,49.74,51.29,47.15,0.97,0.81,0.86,0.97,0.81,0.86,7209.36,5128.09,8878.02,105.40,99.11,26.38
2016-08-15 14:41:30,223.75,230.67,208.97,387.56,386.52,383.99,221.73,221.89,225.23,42.41,67.39,08,26.43,29.71,26.26,49.62,51.18,47.08,1,0.85,0.91,1,0.85,0.91,7209.48,5128.17,8878.17,106.66,99.44,26.39
2016-08-15 14:41:35,223.59,230.24,208.75,387.4,386.24,383.8,221.65,221.76,225.08,41.95,41.59,39.02,26.38,29.62,26.17,49.56,51.06,46.98,0.98,0.82,0.88,0.98,0.82,0.88,7209.64,5128.28,8878.36,105.99,99.44,26.42
2016-08-15 14:41:40,223.46,230.07,208.78,387.51,386.42,383.96,221.71,221.85,225.18,41.89,41.55,39.02,26.42,29.64,26.24,49.52,51.04,47.02,0.97,0.81,0.87,0.97,0.81,0.87,7209.77,5128.36,8878.51,105.6,99.24,26.30
2016-08-15 14:41:45,223.55,230.42,208.99,387.58,386.48,384.02,221.77,221.86,225.22,41.96,41.64,39.04,26.41,29.67,26.25,49.57,51.13,47.05,0.93,0.8,0.85,0.93,0.8,0.85,7209.89,5128.44,8878.66,106.66,99.51,26.45
2016-08-15 14:41:50,223.71,230.67,209.18,387.59,386.49,384.02,221.77,221.87,225.22,42.41,7.39,1.26,41,29.67,26.28,49.61,51.18,47.11,1,0.85,0.89,1,0.85,0.89,7210.05,5128.55,8878.85,105.50,99.85,26.31
2016-08-15 14:41:55,237.59,244.67,224.28,386.55,385.12,382.54,220.9,221.16,224.57,43.72,43.71,41.24,28.39,31.26,28.18,52.13,53.74,49.95,0.94,0.79,0.86,0.94,0.79,0.86,7210.17,5128.63,8879.105.31,99.14,26.32
2016-08-15 14:42:00,261.69,268.99,246.4,384.28,382.52,380.02,219.34,219.51,223.53,49.72,49.12,46.4,34.42,37.89,33.82,60.47,62.03,57.42,0.92,0.78,0.84,0.92,0.78,0.84,7210.3,5128.72,8879.16,105.88,99.49,26.39
2016-08-15 14:42:05,271.3,278.6,253.07,384.65,382.92,380.43,219.65,219.7,223.71,48.33,47.74,45.02,34.25,37.74,33.72,59.23,60.85,56.25,0.94,0.81,0.86,0.94,0.81,0.86,7210.48,5128.85,8879.38,106.45,99.10,26.42

2016-08-15 14:42:10,268.32,276.09,250.72,384.72,383.1,380.58,219.7,219.77,223.82,48.4,47.94,45.15,34.24,37.78,33.84,59.28,61.04,56.42,0.94,0.78,0.84,0.94,0.78,0.84,7210.63,5128.95,8879.56,106.99,99.43,26.39
2016-08-15 14:42:15,272.11,279.86,254.07,384.74,383.14,380.48,219.59,219.85,223.83,49.08,48.69,45.82,34.32,37.9,33.97,59.89,61.7,57.04,0.96,0.8,0.83,0.96,0.8,0.83,7210.77,5129.06,8879.73,106.5,99.20,26.35
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2016-08-15 14:42:25,274.13,281.9,256.04,384.68,383.1,380.44,219.54,219.82,223.82,49.46,49.02,46.16,34.38,37.96,33.98,60.24,62.57,31.0,0.94,0.79,0.86,0.94,0.79,0.86,7211.1,5129.31,8880.15,106.7,99.68,26.45
2016-08-15 14:42:30,274.63,282.38,256.28,384.51,382.89,380.28,219.45,219.7,223.73,49.55,49.11,46.25,34.32,37.9,33.93,60.27,62.03,57.36,0.96,0.83,0.86,0.96,0.83,0.86,7211.24,5129.41,8880.33,105.25,99.30,26.41
2016-08-15 14:42:35,274.93,282.36,256.52,384.64,382.95,380.42,219.55,219.74,223.77,49.61,49.11,46.3,34.39,37.92,33.93,60.36,62.05,57.4,0.95,0.82,0.85,0.95,0.82,0.85,7211.44,5129.55,8880.57,105.31,99.4,26.38
2016-08-15 14:42:40,275.1,282.44,256.88,384.44,382.84,380.27,219.41,219.69,223.69,49.65,49.18,46.4,34.39,37.9,33.95,60.4,62.09,57.49,0.95,0.82,0.86,0.95,0.82,0.86,7211.58,5129.66,8880.75,106.56,99.45,26.42
2016-08-15 14:42:45,267.57,274.89,248.85,384.99,383.65,381.12,220.02,220.15,223.88,47.79,47.03,44.12,32.41,36.32,32.05,57.74,59.42,54.54,0.93,0.82,0.87,0.93,0.82,0.87,7211.73,5129.77,8880.93,105.16,99.40,26.35
2016-08-15 14:42:50,262.18,269.89,243.31,385.26,383.84,381.37,220.21,220.25,224.02,47.75,46.98,44.06,32.47,36.39,32.1,57.74,59.43,54.51,0.96,0.82,0.85,0.96,0.82,0.85,7211.92,5129.9,8881.16,105.60,99.92,26.34
2016-08-15 14:42:55,261.99,269.69,243.49,385.1,383.76,381.3,220.13,220.18,223.98,47.67,46.99,44.06,32.36,36.28,32.08,57.62,59.37,54.51,0.95,0.8,0.81,0.95,0.8,0.81,7212.06,5130.8881.33,105.70,99.43,26.34
2016-08-15 14:43:00,261.88,269.46,243.09,385.14,383.71,381.24,220.14,220.2,223.92,47.66,46.86,43.94,32.41,36.35,32.02,57.64,59.3,54.37,0.96,0.82,0.83,0.96,0.82,0.83,7212.19,5130.1,8881.51,105.45,99.17,26.40
2016-08-15 14:43:05,275.73,283.14,255.58,384.35,382.86,380.28,219.46,219.77,223.52,50.7,49.97,46.87,33.03,37.08,32.66,60.51,62.23,57.13,0.97,0.85,0.85,0.97,0.85,0.85,7212.38,5130.24,8881.73,105.44,99.72,26.39
2016-08-15 14:43:10,271.37,278.86,251.96,384.64,383.19,380.67,219.68,219.93,223.73,49.31,48.63,45.65,32.73,36.65,32.42,59.19,60.9,55.99,0.95,0.83,0.86,0.95,0.83,0.86,7212.52,5130.34,8881.91,105.58,99.48,26.36
2016-08-15 14:43:15,266.47,274.06,247.72,384.83,383.54,381.21,219.89,220.07,223.88,48.52,47.88,44.94,32.56,36.45,32.27,58.43,60.17,55.33,0.97,0.82,0.88,0.97,0.82,0.88,7212.67,5130.44,8882.09,105.61,99.49,26.42
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2016-08-15 14:43:25,263.42,271.3,244.7,384.84,383.5,380.94,219.93,220.07,223.79,48.01,47.36,44.38,32.4,36.35,32.14,57.92,59.7,54.8,0.97,0.82,0.84,0.97,0.82,0.84,7213.5130.68,8882.49,105.92,99.7,26.43
2016-08-15 14:43:30,278.95,286.76,261.52,384.33,382.73,380.07,219.39,219.68,223.48,49.7,49.34,46.53,34.45,37.95,34.08,60.47,62.24,57.68,0.97,0.84,0.84,0.97,0.84,0.84,7213.14,5130.78,8882.67,106.70,99.42,26.34
2016-08-15 14:43:35,273.91,281.61,256.25,384.51,382.89,380.32,219.57,219.75,223.57,49.21,48.78,45.99,34.3,37.82,33.9,59.99,61.72,57.13,0.96,0.8,0.84,0.96,0.8,0.84,7213.33,5130.92,8882.91,105.62,99.43,26.42
2016-08-15 14:43:40,272.42,280.23,254.7,384.32,382.73,380.13,219.47,219.64,223.47,48.98,48.54,45.71,34.23,37.79,33.87,59.75,61.51,56.89,0.97,0.82,0.83,0.97,0.82,0.83,7213.48,5131.02,8883.08,106.51,99.15,26.39
2016-08-15 14:43:45,272.16,280.05,254.36,385.08,383.48,380.9,219.95,220.06,223.89,48.98,48.48,45.66,34.42,38.34,01,59.87,61.6,56.94,0.97,0.82,0.87,0.97,0.82,0.87,7213.62,5131.13,8883.26,105.38,99.45,26.35
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2016-08-15 14:43:55,260.19,267.63,241.61,385.99,384.54,382.13,220.7,220.64,224.4,48.36,47.53,44.69,33.58,37.43,33.11,58.87,60.5,55.62,0.96,0.82,0.86,0.96,0.82,0.86,7213.95,5131.38,8883.68,106.84,99.69,26.41
2016-08-15 14:44:00,265.57,273.02,246.46,385.43,383.99,381.53,220.3,220.31,224.14,48.13,47.25,44.4,33.35,37.26,32.86,58.56,60.17,55.24,0.98,0.83,0.89,0.98,0.83,0.89,7214.09,5131.48,8883.85,106.42,99.82,26.39
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2016-08-15 14:44:15,257.38,264.42,240,385.93,384.57,382.07,220.64,220.68,224.36,47.08,46.44,43.82,31.87,35.41,31.43,56.85,58.4,53.93,1,0.84,0.89,1,0.84,0.89,7214.56,5131.82,8884.43,106.53,99.17,26.37
2016-08-15 14:44:20,258.28,265.26,241.05,385.97,384.64,382.12,220.64,220.72,224.4,47.24,46.61,44.01,31.9,35.43,31.47,57.58,55.54,1,1.01,0.85,0.9,1.01,0.85,0.9,7214.74,5131.95,8884.66,106.0,99.67,26.36
2016-08-15 14:44:25,265.24,272.37,246.83,385.74,384.41,381.81,220.4,220.6,224.32,48.82,48.15,45.34,32.32,36.08,31.93,58.55,60.17,55.46,1,0.84,0.88,1,0.84,0.88,7214.88,5132.05,8884.83,106.18,99.74,26.31
2016-08-15 14:44:30,268.67,275.77,249.39,385.42,383.95,381.4,220.1,220.28,224.27,49.37,48.58,45.57,33.71,37.66,33.27,59.78,61.47,56.43,0.96,0.82,0.86,0.96,0.82,0.86,7215.03,5132.16,8885.01,105.92,99.73,26.41
2016-08-15 14:44:35,300.12,307.54,279.86,384.05,382.23,379.5,218.79,219.44,223.56,54.95,54.64,51.49,35.95,39.61,35.54,65.66,67.49,62.57,0.97,0.8,0.85,0.97,0.8,0.85,7215.22,5132.3,8885.24,105.68,99.92,26.34
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2016-08-15 14:44:55,254.38,261.71,239.46,386.82,385.46,382.66,220.77,221.41,224.88,48.09,48.24,45.42,28.98,32.08,28.87,56.15,57.93,53.82,0.95,0.8,0.85,0.95,0.8,0.85,7215.87,5132.73,8886.03,106.46,99.62,26.42
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2016-08-15 14:45:10,250.26,257.26,233.59,386.89,385.68,382.97,220.92,221.53,224.95,47.61,47.51,44.5,27.25,30.73,27.2,54.86,56.59,52.16,0.98,0.82,0.87,0.98,0.82,0.87,7216.34,5133.02,8886.59,105.17,99.61,26.35
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2016-08-15 14:45:30,226.04,233.04,210.92,388.07,387.02,384.41,221.98,222.18,225.51,42.56,42.22,39.55,26.58,29.97,26.43,50.18,51.78,47.57,0.93,0.78,0.85,0.93,0.78,0.85,7216.96,5133.41,8887.32,106.89,99.83,26.33
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2016-08-15 14:45:40,233.3,240.5,218.41,386.87,385.37,382.62,220.93,221.32,224.75,45.42,45.56,42.99,29.55,32.4,29.34,54.18,55.9,52.05,0.96,0.81,0.88,0.96,0.81,0.88,7217.21,5133.58,8887.61,105.51,99.78,26.32
2016-08-15 14:45:45,236.14,243.32,222.36,387.58,386.25,383.56,221.52,221.77,225.18,43.81,43.78,41.25,28.59,31.55,28.38,52.31,53.96,50.07,0.94,0.79,0.87,0.94,0.79,0.87,7217.38,5133.69,8887.82,105.11,99.51,26.35
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2016-08-15 14:45:55,234.33,241.71,220.89,387.5,386.21,383.57,221.53,221.71,225.17,43.45,43.44,40.93,28.43,31.39,28.27,51.93,53.59,49.74,0.94,0.79,0.86,0.94,0.79,0.86,7217.63,5133.87,8888.13,106.16,99.16,26.36
2016-08-15 14:46:00,234.37,241.75,220.86,387.48,386.2,383.52,221.5,221.71,225.15,43.44,43.44,40.91,28.43,31.4,28.26,51.91,53.6,49.73,0.98,0.84,0.89,0.98,0.84,0.89,7217.8,5133.98,8888.34,105.97,99.91,26.30
2016-08-15 14:46:05,229.39,236.4,215.66,388.08,386.85,384.17,221.92,222.1,225.44,41.34,40.98,38.4,26.06,29.38,25.89,48.87,50.42,46.31,0.94,0.8,0.85,0.94,0.8,0.85,7217.93,5134.07,8888.49,106.33,99.51,26.36
2016-08-15 14:46:10,219.52,226.51,204.93,388.64,387.61,384.98,222.41,222.51,225.76,41.34,40.99,38.37,26.03,29.38,25.88,48.85,50.44,46.29,0.97,0.81,0.84,0.97,0.81,0.84,7218.06,5134.16,8888.65,106.10,99.50,26.31
2016-08-15 14:46:15,219.48,226.55,205.04,388.53,387.57,384.94,222.35,222.47,225.74,41.3,40.98,38.38,26.29,33.25,88.48,8,50.4,46.29,0.96,0.8,0.85,0.96,0.8,0.85,7218.22,5134.27,8888.84,105.54,99.23,26.31
2016-08-15 14:46:20,219.47,226.65,205.08,388.61,387.66,385.03,222.4,222.5,225.8,41.32,41.03,38.38,25.99,29.34,25.89,48.81,50.45,46.3,0.94,0.83,0.89,0.94,0.83,0.89,7218.34,5134.35,8888.99,106.77,99.14,26.40
2016-08-15 14:46:25,219.74,226.77,205.29,388.56,387.6,384.98,222.36,222.48,225.77,41.39,41.06,38.45,26.02,29.38,25.9,48.89,50.49,46.35,0.96,0.78,0.88,0.96,0.78,0.88,7218.46,5134.43,8889.13,106.80,99.37,26.37
2016-08-15 14:46:30,220.83,227.85,205.78,389.03,387.89,385.27,222.61,222.72,225.91,41.63,41.25,38.56,26.14,29.56,25.97,49.16,50.75,46.49,0.94,0.79,0.86,0.94,0.79,0.86,7218.62,5134.53,8889.33,106.28,99.41,26.43
2016-08-15 14:46:35,221.08,228.05,206.26,388.87,387.85,385.25,222.53,222.65,225.92,41.76,41.39,38.73,26.13,29.52,25.98,49.26,50.84,46.64,0.94,0.79,0.88,0.94,0.79,0.88,7218.74,5134.62,8889.47,105.24,99.6,26.35
2016-08-15 14:46:40,221.65,228.63,206.74,388.73,387.73,385.15,222.44,222.58,225.86,41.85,41.48,38.83,26.11,29.5,25.98,49.33,50.9,46.72,0.96,0.79,0.86,0.96,0.79,0.86,7218.87,5134.7,8889.62,105.32,99.51,26.31
2016-08-15 14:46:45,222.29,229.42,207.45,388.82,387.75,385.11,222.45,222.63,225.85,41.99,41.69,38.97,26.11,29.51,26.49,45.51,08.46,85,0.96,0.82,0.87,0.96,0.82,0.87,7219.03,5134.81,8889.82,106.94,99.53,26.41
2016-08-15 14:46:50,236.43,243.93,223.36,387.78,386.45,383.67,221.58,221.93,225.25,43.83,43.93,41.35,28.09,31.07,28.52,06.53,81,49.94,0.97,0.81,0.89,0.97,0.81,0.89,7219.15,5134.89,8889.96,106.94,99.47,26.35
2016-08-15 14:46:55,233.73,241.27,220.55,387.79,386.57,383.81,221.66,221.96,225.29,43.49,43.57,41.02,27.94,30.93,27.85,51.69,53.43,49.58,1,0.84,0.87,1,0.84,0.87,7219.28,5134.98,8890.12,105.87,99.78,26.42
2016-08-15 14:47:00,234.53,241.42,220.62,387.71,386.29,383.64,221.6,221.86,225.14,43.8,43.7,41.2,27.98,30.97,27.74,51.97,53.56,49.67,0.97,0.82,0.88,0.97,0.82,0.88,7219.45,5135.09,8890.33,105.27,99.23,26.33
2016-08-15 14:47:05,288.78,296.28,268.32,382.67,380.89,378.12,218.03,218.66,222.72,52.36,52.02,48.9,34.56,38.18,34.01,62.74,64.53,59.56,0.93,0.79,0.82,0.93,0.79,0.82,7219.58,5135.18,8890.48,106.54,99.17,26.35
2016-08-15 14:47:10,281.85,289.42,262.18,384.43,382.71,380.08,219.26,219.63,223.73,50.93,50.52,47.55,34.32,37.85,33.73,61.41,63.12,58.3,0.93,0.81,0.85,0.93,0.81,0.85,7219.73,5135.28,8890.66,106.31,99.72,26.33
2016-08-15 14:47:15,277.2,284.66,258.18,384.5,382.71,380.16,219.36,219.64,223.71,50.29,49.91,46.96,34.18,37.66,33.62,60.81,62.52,57.76,0.94,0.81,0.83,0.94,0.81,0.83,7219.93,5135.42,8890.91,105.87,99.12,26.32
2016-08-15 14:47:20,265.09,272.61,245.61,385.07,383.69,381.12,219.88,220.12,224.14,48.54,47.91,44.87,32.26,36.11,31.81,58.28,59.99,55.0,92.0,78,0.85,0.92,0.78,0.85,7220.08,5135.52,8891.09,105.11,99.39,26.43
2016-08-15 14:47:25,264.73,272.12,244.99,384.5,382.93,380.45,219.52,219.76,223.7,48.52,47.86,44.76,32.05,35.94,31.58,58.15,59.85,54.78,0.98,0.81,0.86,0.98,0.81,0.86,7220.22,5135.62,8891.26,106.81,99.50,26.34

2016-08-15 14:47:30,264.32,272.01,244.4,384.42,382.95,380.38,219.51,219.75,223.64,48.4,47.76,44.63,31.99,35.94,31.56,58.02,59.78,54.66,0.99,0.85,0.87,0.99,0.85,0.87,7220.41,5135.76,8891.49,106.73,99.66,26.37
2016-08-15 14:47:35,264.31,272.34,244.2,384.36,382.84,380.25,219.47,219.69,223.58,48.36,47.83,44.63,31.88,35.86,31.55,57.92,59.78,54.65,0.97,0.84,0.86,0.97,0.84,0.86,7220.55,5135.86,8891.67,105.36,99.85,26.38
2016-08-15 14:47:40,264.56,272.27,244.8,384.25,382.72,380.21,219.4,219.62,223.57,48.52,47.92,44.79,31.96,35.88,31.54,58.1,59.86,54.78,0.96,0.82,0.83,0.96,0.82,0.83,7220.69,5135.95,8891.84,105.1.99.15,26.42
2016-08-15 14:47:45,265.01,273.09,245.61,384.14,382.68,380.13,219.32,219.58,223.54,48.56,48.07,44.9,31.93,35.85,31.6,58.12,59.97,54.9,0.95,0.83,0.86,0.95,0.83,0.86,7220.88,5136.09,8892.07,106.24,99.97,26.31
2016-08-15 14:47:50,265.8,273.78,246.27,383.91,382.52,379.92,219.15,219.51,223.44,48.78,48.28,45.08,31.82,35.76,31.5,58.24,60.08,54.99,0.96,0.82,0.85,0.96,0.82,0.85,7221.02,5136.19,8892.24,105.36,99.57,26.39
2016-08-15 14:47:55,266.83,274.6,246.64,382.54,380.69,378.21,217.98,218.55,222.62,52.23,52.04,48.91,34.87,38.38,34.38,62.8,64.66,59.78,0.93,0.79,0.84,0.93,0.79,0.84,7221.16,5136.28,8892.42,105.81,99.85,26.38
2016-08-15 14:48:00,279.52,287.36,260.21,383.17,381.46,378.79,218.48,218.97,222.97,50.82,50.54,47.43,33.86,37.49,33.42,61.07,62.92,58.02,0.91,0.81,0.82,0.91,0.81,0.82,7221.35,5136.42,8892.65,105.36,99.92,26.35
2016-08-15 14:48:05,278.58,286.3,259.46,382.96,381.27,378.65,218.4,218.83,222.88,50.58,50.33,47.25,33.7,37.28,33.26,60.78,62.63,57.79,0.92,0.79,0.84,0.92,0.79,0.84,7221.51,5136.52,8892.83,106.8,99.89,26.44
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2016-08-15 14:48:25,275.75,283.1,256.14,384.4,382.85,380.31,219.45,219.71,223.64,49.02,48.35,45.27,32.13,36.01,31.61,58.61,60.28,55.22,0.89,0.75,0.78,0.89,0.75,0.78,7222.15,5136.98,8893.62,106.19,99.9,26.30
2016-08-15 14:48:30,266.81,274.24,246.67,384.25,382.7,380.16,219.36,219.63,223.56,48.98,48.33,45.23,32.04,35.94,31.55,58.53,60.23,55.15,0.89,0.75,0.81,0.89,0.75,0.81,7222.34,5137.11,8893.86,105.96,99.98,26.31
2016-08-15 14:48:35,271.82,279.06,251.19,383.67,382.11,379.64,218.99,219.27,223.31,49.61,48.97,45.85,32.73,36.63,32.21,59.43,61.15,56.04,0.89,0.75,0.81,0.89,0.75,0.81,7222.49,5137.21,8894.03,105.53,99.55,26.33
2016-08-15 14:48:40,271.35,278.71,250.81,384.11,382.56,380.07,219.27,219.51,223.56,49.63,48.93,45.83,32.82,36.74,32.29,59.5,61.19,56.06,0.89,0.75,0.78,0.89,0.75,0.78,7222.63,5137.31,8894.21,106.16,99.69,26.41
2016-08-15 14:48:45,271.46,278.85,250.75,384.11,382.52,380.03,219.26,219.5,223.53,49.65,48.95,45.83,32.82,36.75,32.28,59.52,61.21,56.05,0.9,0.77,0.81,0.9,0.77,0.81,7222.82,5137.45,8894.45,106.78,99.44,26.41
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2016-08-15 14:49:15,287.85,295.39,267.71,383.34,381.54,378.89,218.51,218.99,223.13,52.37,52.01,48.92,34.84,38.46,34.28,62.9,64.69,59.73,0.9,0.77,0.79,0.9,0.77,0.79,7223.82,5138.14,8895.66,105.28,99.95,26.27
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2016-08-15 14:49:25,273.04,279.91,255.17,384.14,382.48,379.77,219.13,219.56,223.45,49.56,49.28,46.58,33.18,36.4,32.58,59.64,61.27,56.84,0.9,0.76,0.79,0.9,0.76,0.79,7224.13,5138.35,8896.03,106.82,99.15,26.32
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2016-08-15 14:49:40,248.54,255.58,231.06,385.2,383.9,381.3,220.11,220.29,224.02,45.38,44.87,42.15,30.29,33.79,29.85,54.56,56.17,51.65,0.96,0.81,0.87,0.96,0.81,0.87,7224.61,5138.69,8896.62,105.97,99.76,26.34
2016-08-15 14:49:45,247.34,254.38,230.13,385.42,384.09,381.55,220.28,220.38,224.16,45.23,44.71,42.04,30.37,33.81,29.89,54.48,56.06,51.59,0.93,0.75,0.83,0.93,0.75,0.83,7224.78,5138.81,8896.84,105.23,99.40,26.28
2016-08-15 14:49:50,247.67,254.62,230.26,385.58,384.24,381.67,220.36,220.49,224.22,45.37,44.82,42.11,30.39,33.89,29.91,54.61,56.2,51.65,0.96,0.8,0.88,0.96,0.8,0.88,7224.92,5138.9,8897.106.30,99.37,26.23
2016-08-15 14:49:55,248.84,255.87,231.45,385.51,384.16,381.59,220.29,220.43,224.21,45.72,45.23,42.5,30.47,33.94,30.01,54.94,56.54,52.03,0.93,0.78,0.83,0.93,0.78,0.83,7225.05,5139.8897.16,106.86,99.97,26.33
2016-08-15 14:50:00,250.15,257.49,233.03,385.19,383.91,381.27,220.06,220.29,224.06,45.89,45.48,42.71,30.41,33.9,30.03,55.05,56.72,52.21,0.97,0.82,0.86,0.97,0.82,0.86,7225.23,5139.12,8897.38,105.15,99.63,26.22
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2016-08-15 14:50:10,250.62,257.96,233.59,384.91,383.64,380.97,219.88,220.15,223.89,46.06,45.7,42.91,30.36,33.86,30.01,55.17,56.87,52.36,1.01,0.85,0.88,1.01,0.85,0.88,7225.49,5139.31,8897.71,105.99,99.79,26.25
2016-08-15 14:50:15,252.41,259.57,234.93,384.97,383.61,380.99,219.89,220.16,223.89,46.4,45.96,43.18,30.46,33.96,30.03,55.5,57.15,52.6,0.99,0.84,0.88,0.99,0.84,0.88,7225.67,5139.44,8897.93,105.20,99.15,26.21
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2016-08-15 14:50:35,264.56,271.75,248.51,384.4,382.92,380.24,219.39,219.75,223.66,47.99,48.04,45.48,32.35,35.28,31.97,57.88,59.6,55.59,0.92,0.76,0.86,0.92,0.76,0.86,7226.28,5139.86,8898.67,106.53,99.29,26.35
2016-08-15 14:50:40,263.41,270.91,248.53,385.3,383.6,380.93,219.89,220.21,224.02,48.06,48.18,45.57,32.52,35.41,32.15,58.03,59.79,55.77,0.98,0.81,0.87,0.98,0.81,0.87,7226.43,5139.96,8898.85,106.71,99.90,26.28
2016-08-15 14:50:45,251.76,259.14,235.82,386.25,384.88,382.27,220.66,220.87,224.63,46.3,46.1,43.42,30.69,33.93,30.35,55.55,57.24,52.97,0.99,0.81,0.88,0.99,0.81,0.88,7226.61,5140.1,8899.08,106.29,99.25,26.26
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2016-08-15 14:50:55,252.04,259.5,236.12,386.33,384.98,382.39,220.73,220.92,224.7,46.37,46.17,43.49,30.71,33.97,30.39,55.62,57.32,53.05,0.95,0.81,0.83,0.95,0.81,0.83,7226.89,5140.29,8899.41,105.31,99.38,26.33
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2016-08-15 14:51:05,267.17,274.23,249.84,385.36,383.83,381.26,219.94,220.32,224.21,49.03,48.77,46.05,31.82,35.05,31.37,58.45,60.06,55.72,0.98,0.82,0.84,0.98,0.82,0.84,7227.21,5140.51,8899.81,106.96,99.8,26.28
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2016-08-15 14:51:15,261.46,268.85,244.49,385.56,384.07,381.5,220.13,220.45,224.27,48.18,47.95,45.14,31.48,34.83,31.13,57.56,59.27,54.83,0.98,0.81,0.85,0.98,0.81,0.85,7227.55,5140.74,8900.21,106.17,99.70,26.30
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2016-08-15 14:51:25,276.59,284.16,261.32,384.96,383.36,380.62,219.56,220.05,224.49,82.50,02.47,41.33,56.36,41.33,21.60,07.61,87.57,88.0,96.0,79.0,84.0,96.0,79.0,84.0,7227.83,5140.93,8900.56,105.64,99.66,26.20
2016-08-15 14:51:30,271.9,279.36,256.39,384.88,383.27,380.54,219.53,220.01,223.92,49.51,49.64,47.33,34.36,25.32,97.59,69.61,46.57,41.0,97.0,81.0,86.0,97.0,81.0,86.0,7228.03,5141.07,8900.8,106.86,99.30,26.26
2016-08-15 14:51:35,271.55,279.31,255.84,384.86,383.24,380.46,219.52,220.01,223.86,49.49,49.59,46.87,33.2,36.21,32.86,59.6,61.41,57.24,0.98,0.83,0.85,0.98,0.83,0.85,7228.18,5141.17,8900.98,106.81,99.26,26.29
2016-08-15 14:51:40,271.18,278.61,255.12,384.73,383.06,380.32,219.47,219.93,223.72,49.34,49.36,46.67,33.2,36.22,32.77,59.47,61.22,57.02,0.98,0.81,0.86,0.98,0.81,0.86,7228.32,5141.27,8901.15,105.31,99.96,26.26
2016-08-15 14:51:45,270.04,277.41,253.88,384.97,383.25,380.53,219.63,220.03,223.82,49.14,49.13,46.44,33.21,36.23,32.75,59.31,61.04,56.82,1.02,0.85,0.9,1.02,0.85,0.9,7228.52,5141.41,8901.39,106.40,99.81,26.27
2016-08-15 14:51:50,268.35,275.72,252.65,384.88,383.19,380.53,219.61,219.97,223.82,48.58,48.65,46.06,33.15,36.06,32.74,58.81,60.56,56.51,1.01,0.81,0.86,1.01,0.81,0.86,7228.66,5141.51,8901.57,105.8,99.27,26.20
2016-08-15 14:51:55,235.28,242.26,221.36,388.34,387.51,384.89,222.24,222.52,225.61,40.4,40.51,38.3,24.22,26.89,24.21,47.1,48.62,45.31,1.02,0.84,0.89,1.02,0.84,0.89,7228.8,5141.61,8901.75,106.74,99.51,26.34
2016-08-15 14:52:00,211.95,218.71,201.01,388.64,387.83,385.17,222.42,222.69,225.78,40.41,40.56,38.33,24.28,26.96,24.3,47.14,48.71,45.38,1.01,0.83,0.89,1.01,0.83,0.89,7228.98,5141.73,8901.96,105.84,99.30,26.32
2016-08-15 14:52:05,211.99,218.7,200.91,388.8,387.98,385.27,222.5,222.8,225.83,40.42,40.52,38.27,24.29,26.99,24.25,47.16,48.68,45.31,1.02,0.83,0.9,1.02,0.83,0.9,7229.1,5141.8,8902.1,105.20,99.6,26.22
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2016-08-15 14:52:15,213.16,219.67,200.07,388.76,387.49,384.74,222.38,222.68,225.46,40.78,40.68,38.18,24.17,27.17,24.02,47.4,48.92,45.11,0.97,0.8,0.81,0.97,0.8,0.81,7229.38,5141.98,8902.43,105.10,99.82,26.35
2016-08-15 14:52:20,213.06,219.68,200.24,388.5,387.36,384.57,222.22,222.59,225.39,40.74,40.7,38.21,24.1,27.09,24.03,47.33,48.89,45.13,0.98,0.81,0.82,0.98,0.81,0.82,7229.5,5142.05,8902.57,105.90,99.62,26.23
2016-08-15 14:52:25,213.19,219.79,200.35,388.02,386.83,384.03,221.92,222.3,225.08,40.8,40.77,38.23,24.01,27.01,23.94,47.34,48.9,45.11,0.98,0.83,0.8,0.98,0.83,0.8,7229.62,5142.13,8902.71,105.78,99.62,26.32
2016-08-15 14:52:30,235.69,242.86,224.47,387.06,385.46,382.51,220.98,221.59,224.53,44.25,44.74,42.34,27.46,29.91,27.34,52.08,53.82,50.4,0.97,0.8,0.81,0.97,0.8,0.81,7229.78,5142.23,8902.9,105.83,99.39,26.23
2016-08-15 14:52:35,224.42,231.12,212.9,387.76,386.29,383.46,221.58,222.03,224.9,42.17,42.41,40.09,26.11,28.65,25.94,49.6,51.19,47.75,0.99,0.82,0.82,0.99,0.82,0.82,7229.9,5142.3,8903.05,106.25,99.9,26.29
2016-08-15 14:52:40,222.94,229.69,211.34,387.88,386.34,383.56,221.69,222.07,224.92,42.01,42.21,39.9,26.05,28.6,25.85,49.43,50.98,47.54,1.01,0.84,0.82,1.01,0.84,0.82,7230.03,5142.39,8903.2,106.58,99.72,26.20
2016-08-15 14:52:45,222.54,229.05,210.99,387.76,386.34,383.5,221.62,222.05,224.9,41.89,42.08,39.82,26.03,28.57,25.81,49.32,50.86,47.45,1.0,0.82,0.84,1.0,0.82,0.84,7230.19,5142.49,8903.4,105.70,99.2,26.25

2016-08-15 14:52:50,221.99,228.68,210.49,387.72,386.31,383.43,221.59,222.04,224.86,41.72,41.93,39.65,25.95,28.51,25.76,49.14,50.7,47.29,1,0.8,0.82,1,0.8,0.82,7230.32,5142.57,8903.54,105.19,99.85,26.20

2016-08-15 14:52:55,221.61,228.26,210.25,388.41,387.06,384.35,222.19,222.42,225.25,40.49,40.49,38.17,24.8,27.56,24.61,47.48,48.98,45.41,0.98,0.79,0.81,0.98,0.79,0.81,7230.44,5142.65,8903.69,105.1,99.78,26.23

2016-08-15 14:53:00,223.29,229.48,209.44,387.9,386.48,383.7,221.71,222.18,224.96,42.86,42.76,40.22,24.77,27.77,24.54,49.51,50.99,47.12,1.02,0.8,0.82,1.02,0.8,0.82,7230.6,5142.76,8903.89,106.54,99.93,26.31

2016-08-15 14:53:05,216.59,222.69,203.24,388.53,387.14,384.44,222.19,222.53,225.3,41.19,41.02,38.6,24.4,27.33,24.15,47.88,49.29,45.53,1,0.81,0.83,1,0.81,0.83,7230.73,5142.83,8904.03,106.83,99.84,26.35

2016-08-15 14:53:10,213.64,219.64,200.44,385.39,383.47,380.88,219.99,220.32,223.74,48.24,47.73,44.97,33.46,36.67,32.53,58.71,60.19,55.5,1,0.83,0.81,1,0.83,0.81,7230.85,5142.91,8904.17,105.48,99.94,26.20

2016-08-15 14:53:15,249.08,255.29,231.52,385.97,384.25,381.7,220.54,220.71,224.05,45.84,45.12,42.51,30.28,33.75,29.73,54.93,56.35,51.87,0.94,0.79,0.8,0.94,0.79,0.8,7231.02,5143.02,8904.38,106.84,99.97,26.28

2016-08-15 14:53:20,245.87,252.17,228.51,386.3,384.7,382.08,220.79,220.92,224.27,45.24,44.52,41.93,30.22,33.71,29.69,54.4,55.84,51.38,0.95,0.8,0.81,0.95,0.8,0.81,7231.15,5143.11,8904.54,106.31,99.95,26.33

2016-08-15 14:53:25,248.33,254.67,230.66,385.35,383.69,381.09,220.15,220.4,223.72,45.83,45.15,42.47,30.05,33.58,29.57,54.8,56.27,51.75,0.98,0.82,0.82,0.98,0.82,0.82,7231.28,5143.2,8904.7,105.10,99.14,26.27

2016-08-15 14:53:30,250.61,256.72,232.61,385.45,383.74,381.14,220.19,220.45,223.75,46.22,45.48,42.81,30.14,33.69,29.6,55.18,56.59,52.05,0.98,0.83,0.79,0.98,0.83,0.79,7231.46,5143.33,8904.92,105.76,99.45,26.21

2016-08-15 14:53:35,250.82,257.08,232.91,385.3,383.58,380.97,220.09,220.36,223.65,49.47,49.15,46.56,33.14,36.21,32.51,59.55,61.05,56.78,0.98,0.82,0.81,0.98,0.82,0.81,7231.6,5143.42,8905.08,106.4,99.74,26.26

2016-08-15 14:53:40,263.22,269.56,246.51,384.82,382.86,380.18,219.71,220.22,223.26,47.84,47.42,44.88,32.12,35.25,31.52,57.62,59.09,54.85,0.93,0.8,0.76,0.93,0.8,0.76,7231.73,5143.51,8905.25,105.24,99.7,26.21

2016-08-15 14:53:45,260.52,266.87,244.05,384.36,382.46,379.8,219.47,219.74,223.04,47.45,47.03,44.52,31.89,35.03,31.32,57.18,58.64,54.43,0.93,0.78,0.79,0.93,0.78,0.79,7231.92,5143.64,8905.48,105.29,99.17,26.20

2016-08-15 14:53:50,260.54,266.84,243.87,384.38,382.51,379.78,219.45,219.8,223.03,47.46,47.04,44.46,31.79,34.98,31.22,57.12,58.62,54.33,0.93,0.78,0.79,0.93,0.78,0.79,7232.06,5143.74,8905.65,106.45,99.86,26.29

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2016-08-15 14:54:00,252.97,259.61,235.57,384.35,382.58,379.85,219.54,219.83,222.97,46.39,45.81,43.09,30.53,34.04,30.04,55.54,57.07,52.53,0.99,0.84,0.81,0.99,0.84,0.81,7232.38,5143.97,8906.04,106.78,99.10,26.27

2016-08-15 14:54:05,248.43,255.09,230.81,384.48,382.82,380.12,219.68,219.96,223.06,45.74,45.14,42.35,29.83,33.46,29.4,54.61,56.16,51.55,0.95,0.82,0.85,0.95,0.82,0.85,7232.52,5144.06,8906.21,105.45,99.26,26.27

2016-08-15 14:54:10,247.96,254.91,230.87,384.51,383.380.31,219.74,220.22,2.45,65,45.05,42.31,29.75,33.38,29.4,54.49,56.07,51.52,0.96,0.8,0.83,0.96,0.8,0.83,7232.65,5144.16,8906.37,106.77,99.6,26.27

2016-08-15 14:54:15,247.97,254.92,230.77,384.54,383.01,380.3,219.75,220.02,223.19,45.66,45.06,42.3,29.75,33.39,29.39,54.49,56.09,51.51,0.98,0.83,0.81,0.98,0.83,0.81,7232.83,5144.28,8906.59,106.76,99.93,26.21

2016-08-15 14:54:20,248.6,255.46,231.33,384.53,382.99,380.28,219.73,220.02,223.18,45.75,45.21,42.53,29.81,33.33,29.44,54.61,56.17,51.73,1,0.82,0.91,1,0.82,0.91,7232.96,5144.37,8906.75,106.74,99.36,26.32

2016-08-15 14:54:25,248.88,255.09,232.61,384.82,383.33,380.78,219.94,220.16,223.47,45.84,45.34,42.8,30.02,33.33,29.6,54.8,56.24,52.04,1,0.84,0.88,1,0.84,0.88,7233.1,5144.46,8906.91,105.42,99.23,26.22

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2016-08-15 14:54:35,250.11,256.42,233.68,384.78,383.34,380.82,219.93,220.15,223.5,46.07,45.52,43.02,30.03,33.35,29.61,54.99,56.43,52.23,0.97,0.81,0.88,0.97,0.81,0.88,7233.41,5144.68,8907.3,105.39,99.32,26.20

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2016-08-15 14:54:50,261.31,267.78,245.98,384.55,382.81,380.2,219.6,219.88,223.31,47.63,47.35,44.94,32.02,35.01,31.51,57.39,58.89,54.89,0.96,0.79,0.85,0.96,0.79,0.85,7233.87,5145,8907.86,106.3,99.59,26.30

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2016-08-15 14:55:10,254.69,260.86,237.63,385.32,383.83,381.22,220.21,220.45,223.76,46.58,45.95,43.38,30.27,33.71,29.79,55.56,56.99,52.62,0.92,0.77,0.83,0.92,0.77,0.83,7234.49,5145.43,8908.61,105.90,99.34,26.21

2016-08-15 14:55:15,251.19,257.39,234.16,385.25,383.76,381.17,220.18,220.42,223.7,46.34,45.7,43.13,30.19,33.62,29.72,55.31,56.73,52.38,0.95,0.82,0.87,0.95,0.82,0.87,7234.68,5145.56,8908.84,105.28,99.50,26.33

2016-08-15 14:55:20,255.53,261.84,238.07,385.02,383.42,380.9,219.95,220.17,223.71,48.93,48.14,45.39,33.73,37.28,32.9,59.43,60.88,56.06,0.93,0.76,0.83,0.93,0.76,0.83,7234.81,5145.65,8909,105.68,99.25,26.35

2016-08-15 14:55:25,270.86,277.16,250.7,384.1,382.45,379.91,219.26,219.55,223.36,49.58,48.7,45.89,32.87,36.62,32.22,59.49,60.93,56.07,0.91,0.77,0.83,0.91,0.77,0.83,7234.95,5145.74,8909.17,106.19,99.68,26.28

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2016-08-15 14:55:45,276.01,282.1,255.09,383.75,381.98,379.46,218.96,219.35,223.12,50.73,49.85,46.95,32.84,36.65,32.18,60.43,61.88,56.92,0.93,0.77,0.81,0.93,0.77,0.81,7235.63,5146.22,8910,106.74,99.4,26.35
2016-08-15 14:55:50,289.61,295.43,269.76,383.26,381.2,378.6,218.45,218.95,222.81,52.48,51.85,49.09,34.83,38.22,34.04,62.99,64.42,59.74,0.88,0.74,0.81,0.88,0.74,0.81,7235.77,5146.32,8910.17,106.46,99.3,26.33
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2016-08-15 14:56:20,264.37,271.244,44.385,14,383.51,380.86,219.92,220.19,223.82,48.4,47.49,44.63,32.19,36.02,31.6,58.12,59.61,54.68,0.97,0.79,0.84,0.97,0.79,0.84,7236.78,5147.02,8911.41,105.37,99.92,26.22
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2016-08-15 14:59:15,290.21,298.6,271.31,383.86,382.04,379.04,218.69,219.41,223.2,52.48,52.33,49.1,34.31,38.05,34.07,62.7,64.7,59.77,1.0,0.87,0.92,1.0,0.87,0.92,7242.49,5151.01,8918.38,106.77,99.2,26.25
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2016-08-15 15:04:20,213.03,219.94,200.16,387.99,387.13,384.24,222.03,222.38,225.17,40.26,40.34,37.82,24.42,27.44,24.48,47.09,48.79,45.05,1.06,0.94,0.98,1.06,0.94,0.98,7251.98,5157.64,8929.98,107.82,99.11,26.15
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2016-08-15 15:05:25,268.01,274.3,250.43,385.34,383.91,380.94,219.89,220.54,223.89,48.46,48.41,45.55,33.54,36.28,32.7,58.93,60.49,56.07,0.99,0.87,0.95,0.99,0.87,0.95,7253.88,5158.86,8932.24,107.61,99.96,26.14
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2016-08-15 15:05:35,283.04,291.14,266.02,383.54,381.72,378.87,218.55,219.15,223.13,51.45,51.59,48.6,34.49,37.69,34.12,61.94,63.89,59.38,0.98,0.87,0.92,0.98,0.87,0.92,7254.16,5159.05,8932.58,106.72,99.42,26.19
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2016-08-15 15:05:50,275.15,283.26,256.98,384.03,382.41,379.68,219.04,219.53,223.4,49.88,49.68,46.56,32.57,36.18,32.25,59.57,61.46,56.64,1.0,0.89,0.94,1.0,0.89,0.94,7254.67,5159.4,8933.2,106.1,99.25,26.17
2016-08-15 15:05:55,272.14,280.19,253.44,384.53,382.86,380.13,219.35,219.78,223.65,49.95,49.71,46.55,32.69,36.35,32.34,59.69,61.58,56.68,1.01,0.89,0.91,1.01,0.89,0.91,7254.87,5159.54,8933.44,107.24,99.22,26.19
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2016-08-15 15:06:05,273.15,281.254.21,384.93,383.22,380.47,219.57,220.01,223.85,50.3,50.03,46.84,32.84,36.55,32.47,60.07,61.95,57.0,0.97,0.88,0.92,0.97,0.88,0.92,7255.16,5159.74,8933.8,106.54,99.25,26.15

2016-08-15 15:06:10,274.45,282.46,255.36,384.09,382.39,379.63,219.03,219.56,223.37,50.49,50.25,47.02,32.62,36.34,32.29,60.11,62.02,57.04,0.99,0.86,0.92,0.99,0.86,0.92,7255.36,5159.88,8934.03,107.53,99.94,26.10
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2016-08-15 15:06:20,276.284.35,256.99,384.2,382.62,379.74,219.05,219.67,223.51,50.95,50.8,47.5,32.72,36.5,32.47,60.55,62.55,57.54,1,0.89,0.91,1,0.89,0.91,7255.65,5160.08,8934.39,106.74,99.11,26.19
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2016-08-15 15:10:40,265.26,273.07,247.3,384.93,383.4,380.67,219.75,220.08,223.79,48.64,48.23,45.24,32.33,36.07,32.07,58.41,60.23,55.45,1.0,88.0,9.1,0.88,0.9,7263.71,5165.37,8944.05,107.13,99.34,26.12
2016-08-15 15:10:45,268.57,276.06,250.18,383.71,381.99,379.05,218.74,219.43,223.01,51.72,51.38,48.13,32.83,36.72,32.55,61.26,63.15,58.1,1.01,0.91,0.9,1.01,0.91,0.9,7263.85,5165.47,8944.22,107.43,99.23,26.12
2016-08-15 15:10:50,280.56,288.16,261.12,383.53,381.88,379.06,218.65,219.31,223.05,51.84,51.5,48.31,32.8,36.63,32.53,61.34,63.2,58.24,0.99,0.9,0.91,0.99,0.9,0.91,7264.04,5165.61,8944.46,106.9,99.2,26.11
2016-08-15 15:10:55,297.65,305.59,279.46,382.89,380.84,377.82,217.96,218.8,222.58,52.81,52.93,49.8,34.74,38.17,34.51,63.21,65.26,60.59,1.03,0.91,0.89,1.03,0.91,0.89,7264.19,5165.71,8944.64,107.77,99.6,26.13
2016-08-15 15:11:00,285.51,293.96,267.84,384.23,382.38,379.37,218.97,219.61,223.31,51.87,51.86,48.73,34.54,38.06,34.29,62.32,64.33,59.59,1.05,0.93,0.91,1.05,0.93,0.91,7264.35,5165.82,8944.83,107.9,99.8,26.23
2016-08-15 15:11:05,282.38,291.26,252.22,383.67,381.91,378.87,218.63,219.33,223.05,51.36,51.46,48.33,34.26,37.75,34.12,61.74,63.83,59.16,1.03,0.93,0.93,1.03,0.93,0.93,7264.55,5165.96,8945.08,106.17,99.50,26.25
2016-08-15 15:11:10,281.85,289.85,264.54,383.56,381.75,378.85,218.62,219.22,223.01,51.2,51.16,48.2,34.34,37.7,34.05,61.65,63.55,59.02,1.03,0.93,0.92,1.03,0.93,0.92,7264.71,5166.06,8945.26,107.70,99.11,26.6
2016-08-15 15:11:15,269.47,277.67,251.38,385.21,383.66,380.83,219.82,220.26,223.95,49.49,49.13,46.07,32.64,36.4,32.4,59.28,61.15,56.32,1.04,0.91,0.91,1.04,0.91,0.91,7264.86,5166.17,8945.45,106.30,99.1,26.1
2016-08-15 15:11:20,269.88,277.6,251.53,385.31,383.7,380.93,219.9,220.28,223.99,49.52,49.12,46.09,32.7,36.43,32.4,59.35,61.15,56.34,1.06,0.94,0.95,1.06,0.94,0.95,7265.05,5166.31,8945.69,107.34,99.82,26.0
2016-08-15 15:11:25,270.33,278.12,251.99,385.4,383.83,381.03,219.91,220.38,224.06,49.66,49.36,46.22,32.64,36.45,32.46,59.43,61.36,56.48,1.03,0.92,0.95,1.03,0.92,0.95,7265.2,5166.41,8945.86,106.87,99.19,26.12

2016-08-15 15:11:30,270.24,278.55,252.03,385.06,383.51,380.64,219.7,220.19,223.86,49.66,49.37,46.22,32.56,36.38,32.39,59.38,61.33,56.44,1.04,0.93,0.95,1.04,0.93,0.95,7265.34,5166.51,8946.04,107.23,99.53,26.6

2016-08-15 15:11:35,271.38,278.85,252.75,384.45,382.8,380.1,219.35,219.8,223.52,49.87,49.45,46.43,32.5,36.21,32.18,59.53,61.29,56.49,1.04,0.92,0.95,1.04,0.92,0.95,7265.54,5166.64,8946.28,107.47,99.95,26.10

2016-08-15 15:11:40,271.77,279.12,253.1,384.89,383.26,380.52,219.61,220.06,223.76,49.97,49.51,46.5,32.68,36.4,32.33,59.7,61.45,56.63,1.03,0.93,0.95,1.03,0.93,0.95,7265.68,5166.74,8946.45,107.70,99.21,26.14

2016-08-15 15:11:45,272.03,279.65,253.33,385.15,383.53,380.77,219.77,220.21,223.91,50.08,49.69,46.57,32.67,36.48,32.42,59.8,61.65,56.74,1.04,0.94,0.96,1.04,0.94,0.96,7265.83,5166.84,8946.63,106.98,99.27,26.7

2016-08-15 15:11:50,285.69,293.78,268.42,383.74,381.9,378.98,218.66,219.34,223.12,52.52,07.49,05.34,61.37,97.34,36.62,47.64,44.59,89,1.02,0.9,0.91,1.02,0.9,0.91,7266.02,5166.98,8946.87,107.93,99.65,26.15

2016-08-15 15:11:55,282.61,290.67,265.2,384.02,382.19,379.32,218.9,219.48,223.26,51.27,51.24,48.23,34.35,37.78,34.1,61.71,63.66,59.07,1.03,0.92,0.91,1.03,0.92,0.91,7266.18,5167.09,8947.06,107.23,99.55,26.14

2016-08-15 15:12:00,281.37,289.09,263.79,383.75,381.91,379.06,218.77,219.32,223.08,51,50.87,47.96,34.29,37.65,33.91,61.45,63.29,58.74,1.01,0.89,0.91,1.01,0.89,0.91,7266.33,5167.19,8947.24,107.57,99.62,26.3

2016-08-15 15:12:05,280.85,288.47,263.28,384.01,382.13,379.35,218.95,219.43,223.23,50.99,50.85,47.96,34.37,37.7,33.98,61.49,63.3,58.77,1.02,0.88,0.92,1.02,0.88,0.92,7266.53,5167.33,8947.49,106.16,99.65,26.1

2016-08-15 15:12:10,268.17,275.85,249.83,384.78,383.15,380.43,219.61,219.98,223.67,49.12,48.7,45.67,32.41,36.14,32.11,58.85,60.64,55.83,1.03,0.92,0.91,1.03,0.92,0.91,7266.68,5167.44,8947.67,106.21,99.41,26.10

2016-08-15 15:12:15,268.25,275.96,249.86,384.39,382.81,380.1,219.38,219.78,223.48,49.2,48.78,45.75,32.37,36.1,32.09,58.89,60.68,55.88,1.06,0.9,0.94,1.06,0.9,0.94,7266.82,5167.54,8947.85,107.2,99.82,26.15

2016-08-15 15:12:20,268.66,276.48,250.39,384.37,382.81,379.98,219.32,219.8,223.44,49.24,48.88,45.81,32.36,36.1,32.11,58.92,60.77,55.95,1.01,0.89,0.92,1.01,0.89,0.92,7267.01,5167.67,8948.08,107.54,99.24,26.6

2016-08-15 15:12:25,269.23,276.73,250.82,384.54,382.95,380.19,219.43,219.87,223.56,49.37,48.92,45.95,32.43,36.1,32.08,59.06,60.8,56.04,1.01,0.89,0.9,1.01,0.89,0.9,7267.16,5167.77,8948.26,107.16,99.58,26.9

2016-08-15 15:12:30,269.55,276.95,251.04,384.76,383.14,380.48,219.58,219.98,223.71,49.47,49.02,46.07,32.56,36.2,32.21,59.22,60.93,56.21,0.99,0.87,0.91,0.99,0.87,0.91,7267.3,5167.87,8948.43,107.17,99.65,26.0

2016-08-15 15:12:35,278.61,286.56,259.34,383.71,382.05,379.26,218.82,219.36,223.16,50.94,50.59,47.4,33.49,37.31,33.21,60.96,62.86,57.87,1.0,0.88,0.91,1.0,0.88,0.91,7267.49,5168.01,8948.67,106.37,99.73,26.3

2016-08-15 15:12:40,275.26,283.3,256.05,383.85,382.24,379.37,218.92,219.48,223.19,51.54,51.29,48.14,34.29,37.98,33.99,61.9,63.82,58.93,1.0,0.89,0.91,1.0,0.89,0.91,7267.64,5168.11,8948.84,107.38,99.71,26.14

2016-08-15 15:12:45,299.4,307.57,280.5,382.51,380.55,377.48,217.7,218.61,222.46,55.18,55.24,51.97,35.72,39.27,35.39,65.73,67.77,62.88,1.0,0.86,0.9,1.0,0.86,0.9,7267.79,5168.21,8949.02,106.20,99.48,26.4

2016-08-15 15:12:50,295.3,303.1,276.54,382.97,380.96,378.09,218.09,218.82,222.7,53.8,53.77,50.65,35.4,38.83,35.03,64.4,66.33,61.58,1.0,0.92,0.9,1.0,0.92,0.9,7268.5168.36,8949.28,107.97,99.8,26.7

2016-08-15 15:12:55,290.51,298.23,272.3,383.26,381.37,378.52,218.37,218.99,222.9,52.55,52.48,49.5,35.13,38.51,34.75,63.21,65.1,60.48,1.0,0.88,0.9,1.0,0.88,0.9,7268.16,5168.47,8949.48,107.9,99.15,26.0

2016-08-15 15:13:00,279.6,287.58,261.15,383.81,382.19,379.41,218.92,219.42,223.22,50.32,50.03,46.89,33.1,36.88,32.87,60.24,62.15,57.27,1.03,0.89,0.97,1.03,0.89,0.97,7268.31,5168.58,8949.67,107.62,99.85,26.2

2016-08-15 15:13:05,274.41,282.48,255.79,384.18,382.58,379.74,219.14,219.65,223.4,50.17,49.85,46.71,33.16,36.95,32.91,60.14,62.05,57.14,1.03,0.92,0.93,1.03,0.92,0.93,7268.52,5168.72,8949.91,107.37,99.58,26.5

2016-08-15 15:13:10,273.99,282.11,255.53,384.32,382.75,379.93,219.25,219.72,223.51,50.09,49.77,46.61,33.17,36.99,32.95,60.07,62.01,57.08,1.0,0.88,0.93,1.0,0.88,0.93,7268.66,5168.82,8950.09,106.82,99.11,26.5

2016-08-15 15:13:15,285.26,293.45,264.59,383.39,381.67,378.84,218.55,219.08,223.06,52.64,52.06,48.67,35.03,39.17,34.63,63.23,65.15,59.73,0.99,0.89,0.88,0.99,0.89,0.88,7268.81,5168.92,8950.27,106.47,99.74,26.2

2016-08-15 15:13:20,288.51,296.61,266.98,383.03,381.36,378.53,218.32,218.93,222.87,52.73,52.19,48.75,34.45,38.64,34.12,62.99,64.94,59.5,1.0,0.9,0.89,1.0,0.9,0.89,7269.01,5169.06,8950.51,107.45,99.40,26.8

2016-08-15 15:13:25,286.33,294.5,265.04,383.03,381.33,378.54,218.34,218.94,222.83,52.44,51.96,48.48,34.09,38.3,33.83,62.55,64.55,59.12,0.98,0.85,0.9,0.98,0.85,0.9,7269.16,5169.17,8950.7,107.93,99.2,26.4

2016-08-15 15:13:30,287.17,295.56,266.03,382.88,381.25,378.32,218.19,218.9,222.76,52.67,52.28,48.69,34.02,38.29,33.86,62.7,64.8,59.3,0.98,0.87,0.91,0.98,0.87,0.91,7269.32,5169.27,8950.89,106.95,99.78,26.1

2016-08-15 15:13:35,308.56,317.04,287.8,382.22,380.23,377.22,217.49,218.37,222.41,55.98,55.94,52.45,37.01,40.79,36.69,67.11,69.23,64.01,0.98,0.86,0.89,0.98,0.86,0.89,7269.52,5169.42,8951.14,106.49,99.59,26.12

2016-08-15 15:13:40,301.27,309.39,280.52,382.61,380.63,377.76,217.86,218.58,222.59,54.64,54.36,51.04,36.19,39.96,35.74,65.54,67.46,62.31,0.97,0.85,0.91,0.97,0.85,0.91,7269.68,5169.52,8951.33,106.55,99.1,26.5

2016-08-15 15:13:45,299.95,307.82,279.23,382.76,380.85,377.94,217.98,218.68,222.69,54.4,54.19,50.8,36.09,39.95,35.75,65.28,67.32,62.12,0.95,0.86,0.91,0.95,0.86,0.91,7269.84,5169.64,8951.52,106.56,99.60,26.8

2016-08-15 15:13:50,299.81,308.35,279.38,383.08,381.18,378.28,218.16,218.88,222.89,54.49,54.33,50.9,36.17,40.04,35.88,65.41,67.49,62.27,0.98,0.85,0.92,0.98,0.85,0.92,7270.05,5169.78,8951.78,107.98,99.72,26.5

2016-08-15 15:13:55,287.9,296.09,266.67,382.37,380.78,377.9,217.89,218.62,222.52,52.86,52.47,48.95,33.8,37.98,33.59,62.75,64.77,59.37,0.99,0.89,0.89,0.99,0.89,0.89,7270.21,5169.9,8951.98,107.87,99.34,26.15

2016-08-15 15:14:00,329.35,337.73,301.95,380.27,378.19,375.42,216.28,217.01,221.64,59.74,58.84,54.95,40.11,44.79,39.35,71.96,73.95,67.59,0.98,0.86,0.87,0.98,0.86,0.87,7270.37,5170.8952.17,106.36,99.73,26.0

2016-08-15 15:14:05,333.28,341.26,305.2,379.91,377.81,375.03,216.04,216.82,221.43,59.87,58.96,55.04,40.44,44.7,39.21,72.73,99.67,58.0,0.98,0.89,0.87,0.98,0.89,0.87,7270.59,5170.16,8952.45,106.9,99.78,26.0

2016-08-15 15:14:10,334.39,342.44,306.27,379.88,377.76,375.01,216.01,216.79,221.43,60.17,59.33,55.33,40.01,44.74,39.3,72.26,74.31,67.87,0.99,0.88,0.87,0.99,0.88,0.87,7270.77,5170.29,8952.66,107.43,99.92,26.13
2016-08-15 15:14:15,334.85,343.21,306.83,379.49,377.4,374.62,215.75,216.6,221.22,60.38,59.55,55.52,39.88,44.66,39.2,72.36,74.44,67.96,1.03,0.92,0.9,1.03,0.92,0.9,7270.94,5170.41,8952.87,106.13,99.39,26.4
2016-08-15 15:14:20,341.52,349.9,312.55,379.25,377.12,374.3,215.54,216.43,221.12,61.39,60.56,56.43,40.61,45.46,39.89,73.61,75.73,69.11,0.97,0.88,0.88,0.97,0.88,0.88,7271.17,5170.57,8953.16,106.92,99.60,26.5
2016-08-15 15:14:25,342.98,351.15,313.72,379.41,377.23,374.46,215.64,216.48,221.21,61.81,60.98,56.84,40.58,45.42,39.86,73.94,76.04,69.42,1.01,0.89,0.93,1.01,0.89,0.93,7271.35,5170.7,8953.38,106.79,99.32,26.3
2016-08-15 15:14:30,355.89,364.27,326.8,377.64,375.14,372.19,214.22,215.37,220.23,64.84,64.45,60.4,43.19,47.51,42.35,77.9,80.07,73.77,1.06,0.92,0.92,1.06,0.92,0.92,7271.53,5170.83,8953.6,107.75,99.76,26.9
2016-08-15 15:14:35,355.27,363.53,327.11,377.93,375.61,372.67,214.51,215.6,220.41,63.37,62.92,58.91,42.33,46.74,41.56,76.21,78.38,72.1,1.05,0.93,0.94,1.05,0.93,0.94,7271.77,5171.8953.9,107.25,99.65,26.7
2016-08-15 15:14:40,353.54,361.82,325.76,378.44,376.1,373.25,214.89,215.84,220.71,62.92,62.43,58.52,42.39,46.75,41.61,75.87,78.71,8.0,99.0,89.0,87.0,99.0,89.0,87.0,7271.96,5171.13,8954.12,106.68,99.77,26.11
2016-08-15 15:14:45,366.59,374.71,337.11,377.88,375.47,372.4,214.31,215.57,220.38,65.66,65.23,60.97,43.01,47.59,42.21,78.49,80.74,74.16,0.99,0.87,0.87,0.99,0.87,0.87,7272.15,5171.26,8954.35,106.41,99.25,26.7
2016-08-15 15:14:50,359.63,367.9,330.75,377.68,375.31,372.35,214.36,215.51,220.16,64.33,63.84,59.68,42.48,47.02,41.72,77.09,79.29,72.82,1.03,0.9,0.89,1.03,0.9,0.89,7272.4,5171.43,8954.66,107.77,99.47,26.1
2016-08-15 15:14:55,344.53,352.75,315.23,378.59,376.41,373.58,215.16,216.09,220.63,61.89,61.08,56.88,40.51,45.43,39.82,73.96,76.13,69.43,1.01,0.9,0.88,1.01,0.9,0.88,7272.59,5171.56,8954.89,106.92,99.5,26.8
2016-08-15 15:15:00,343.04,351.41,314.08,378.1,375.98,373.15,214.9,215.84,220.36,61.6,60.77,56.64,40.35,45.2,39.66,73.64,75.74,69.14,0.95,0.84,0.85,0.95,0.84,0.85,7272.77,5171.69,8955.11,107.77,99.44,26.14
2016-08-15 15:15:05,341.34,349.66,312.52,378.97,376.81,374.215,47,216.28,220.82,61.35,60.47,56.36,40.56,45.42,39.83,73.55,75.63,69.01,0.98,0.86,0.85,0.98,0.86,0.85,7273.01,5171.86,8955.4,106.70,99.87,26.14
2016-08-15 15:15:10,339.82,348.69,311.18,379.04,376.99,374.05,215.51,216.37,220.86,61.07,60.22,56.01,40.47,45.44,39.83,73.26,75.44,68.73,0.98,0.84,0.86,0.98,0.84,0.86,7273.19,5171.98,8955.62,106.46,99.56,26.2
2016-08-15 15:15:15,339.8,348.54,311.3,379.02,376.96,374.07,215.49,216.34,220.89,61.60,19.56,02.40,45.45,37.39,81.73.19,75.38,68.73,0.94,0.83,0.86,0.94,0.83,0.86,7273.36,5172.11,8955.84,106.88,99.21,26.15
2016-08-15 15:15:20,340.02,348.72,311.43,379.5,377.42,374.55,215.79,216.6,221.16,61.11,60.26,56.11,40.62,45.54,39.94,73.37,75.53,68.87,0.96,0.83,0.86,0.96,0.83,0.86,7273.6,5172.27,8956.13,107.35,99.88,26.4
2016-08-15 15:15:25,340.49,348.87,311.75,379.62,377.53,374.69,215.87,216.66,221.23,63.83,63.29,59.22,43.07,47.55,42.26,77.79.16,72.75,0.96,0.84,0.86,0.96,0.84,0.86,7273.78,5172.4,8956.34,107.92,99.84,26.4
2016-08-15 15:15:30,352.57,360.78,324.7,378.81,376.45,373.61,215.25,216.07,220.73,62.41,61.73,57.84,42.46,46.89,41.58,75.49,77.52,71.23,0.96,0.82,0.85,0.96,0.82,0.85,7273.96,5172.53,8956.56,107.13,99.51,26.1
2016-08-15 15:15:35,346.03,354.52,318.45,378.64,376.35,373.46,215.19,216.220,61.61,39.60,74.56,81.42,14.46,64.41,33,74.46,76.58,70.25,0.94,0.83,0.85,0.94,0.83,0.85,7274.2,5172.7,8956.86,106.92,99.31,26.6
2016-08-15 15:15:40,342.01,350.34,314.94,378.79,376.53,373.72,215.35,216.1,220.7,60.5,59.82,56.01,41.96,46.36,41.16,73.63,75.68,69.5,0.94,0.81,0.87,0.94,0.81,0.87,7274.38,5172.83,8957.09,106.63,99.16,26.7
2016-08-15 15:15:45,340.65,349.05,313.77,379.32,377.04,374.26,215.73,216.36,220.98,60.24,59.51,55.77,41.97,46.35,41.11,73.42,75.43,69.28,0.99,0.84,0.91,0.99,0.84,0.91,7274.56,5172.96,8957.31,106.29,99.62,26.6
2016-08-15 15:15:50,328.12,336.6,300.81,380.13,378.04,375.33,216.4,216.91,221.4,58.52,57.52,53.66,40.21,44.97,39.45,71,73.01,66.6,0.96,0.85,0.86,0.96,0.85,0.86,7274.79,5173.13,8957.6,106.61,99.33,26.3
2016-08-15 15:15:55,328.26,336.69,300.96,380.29,378.2,375.53,216.51,216.99,221.51,58.56,57.55,53.72,40.25,44.98,39.47,71.06,73.05,66.66,0.97,0.84,0.9,0.97,0.84,0.9,7274.96,5173.26,8957.81,106.44,99.34,26.15
2016-08-15 15:16:00,328.51,336.91,301.15,379.69,377.63,374.9,216.12,216.68,221.17,58.59,57.62,53.69,40.05,44.86,39.33,70.97,73.02,66.55,0.96,0.83,0.92,0.96,0.83,0.92,7275.13,5173.38,8958.02,106.42,99.41,26.14
2016-08-15 15:16:05,328.57,337.35,301.11,379.55,377.49,374.75,216.03,216.6,221.09,58.65,57.71,53.73,39.98,44.82,39.31,70.98,73.07,66.57,0.98,0.87,0.91,0.98,0.87,0.91,7275.36,5173.55,8958.3,107.54,99.29,26.12
2016-08-15 15:16:10,329.28,337.86,301.4,380.02,377.92,375.17,216.3,216.85,221.33,58.9,57.88,53.92,40.17,45.01,39.42,71.29,73.32,66.79,0.93,0.81,0.87,0.93,0.81,0.87,7275.53,5173.67,8958.51,106.16,99.8,26.9
2016-08-15 15:16:15,329.85,338.53,302.03,380.27,378.19,375.44,216.46,217.01,221.48,58.88,57.86,53.89,40.11,44.98,39.36,71.24,73.28,66.74,1.0,86.0,89.1,0.86,0.89,7275.7,5173.8,8958.72,107.70,99.9,26.8
2016-08-15 15:16:20,326.35,335.06,298.87,380.33,378.27,375.51,216.51,217.07,221.48,58.49,57.52,53.52,39.65,44.51,38.96,70.66,72.73,66.19,0.97,0.85,0.91,0.97,0.85,0.91,7275.93,5173.96,8959.107.81,99.78,26.1
2016-08-15 15:16:25,346.8,356.51,321.16,378.87,376.41,373.59,215.32,216.06,220.68,61.21,60.65,56.7,42.17,46.65,41.45,74.33,76.52,70.23,0.98,0.87,0.92,0.98,0.87,0.92,7276.1,5174.09,8959.21,107.98,99.88,26.4
2016-08-15 15:16:30,344.16,352.74,316.58,378.76,376.47,373.65,215.31,216.05,220.69,61.15,60.43,56.52,42.05,46.57,41.23,74.21,76.3,69.96,0.97,0.87,0.87,0.97,0.87,0.87,7276.28,5174.22,8959.43,106.76,99.63,26.15
2016-08-15 15:16:35,349.6,358.38,321.95,378.84,376.63,373.73,215.21,216.09,220.96,62.24,61.71,57.72,42.27,46.78,41.57,75.24,77.44,71.14,0.92,0.82,0.87,0.92,0.82,0.87,7276.51,5174.39,8959.73,106.21,99.3,26.6
2016-08-15 15:16:40,352.52,361.05,324.59,378.63,376.4,373.49,215.03,215.97,220.85,63.97,63.52,59.35,42.43,46.98,41.75,76.76,79.01,72.56,0.97,0.86,0.87,0.97,0.86,0.87,7276.69,5174.52,8959.95,106.37,99.88,26.15
2016-08-15 15:16:45,354.05,362.7,323.94,378.59,376.4,373.49,214.97,216.06,220.8,63.59,62.92,58.56,40.99,45.95,40.39,75.66,77.91,71.14,0.98,0.85,0.9,0.98,0.85,0.9,7276.88,5174.65,8960.18,107.56,99.8,26.13

2016-08-15 15:16:50,348.13,356.68,317.66,379.03,376.88,374.05,215.34,216.29,221.06,62.85,61.94,57.58,40.86,45.98,40.2,74.97,77.15,70.22,0.94,0.82,0.88,0.94,0.82,0.88,7277.13,5174.82,8960.48,107.85,99.99,26.7
2016-08-15 15:16:55,346.17,354.21,315.96,379.14,377.09,374.27,215.45,216.36,221.18,62.2,61.23,57.08,40.81,45.78,40.05,74.39,76.45,69.73,0.95,0.83,0.91,0.95,0.83,0.91,7277.31,5174.95,8960.7,107.30,99.87,25.92
2016-08-15 15:17:00,344.77,353.09,314.79,379,376.83,373.99,215.31,216.22,221.08,63.39,62.44,58.08,41.8,46.92,41.04,75.94,78.1,71.12,1,0.87,0.89,1,0.87,0.89,7277.49,5175.07,8960.92,107.19,99.2,25.99
2016-08-15 15:17:05,350.16,358.62,319.23,378.46,376.3,373.48,215,215.94,220.75,62.96,62.57,65.41,28.46,41.40,54.75,29,77.44,70.47,0.96,0.83,0.85,0.96,0.83,0.85,7277.73,5175.24,8961.22,106.29,99.46,25.85
2016-08-15 15:17:10,351.08,359.46,320.03,377.92,375.78,372.95,214.65,215.65,220.47,63.22,62.32,57.97,41.21,46.35,40.51,75.47,77.66,70.72,0.97,0.86,0.88,0.97,0.86,0.88,7277.91,5175.37,8961.44,107.87,99.40,25.94
2016-08-15 15:17:15,352.03,360.63,320.83,378.27,376.12,373.27,214.86,215.85,220.65,63.5,62.55,58.11,41.23,46.46,40.54,75.71,77.92,70.85,0.96,0.84,0.89,0.96,0.84,0.89,7278.1,5175.5,8961.66,106.78,99.8,25.87
2016-08-15 15:17:20,365.81,374.26,335.41,377.48,375.17,372.16,214.16,215.32,220.25,65.34,64.75,60.47,43.23,47.98,42.43,78.34,80.59,73.87,0.96,0.88,0.89,0.96,0.88,0.89,7278.34,5175.67,8961.96,106.76,99.9,25.92
2016-08-15 15:17:25,362.52,371.03,332.04,377.9,375.57,372.61,214.47,215.54,220.45,64.59,63.92,59.6,42.96,47.8,42.18,77.57,79.81,73.02,1.02,0.89,0.92,1.02,0.89,0.92,7278.53,5175.8,8962.2,106.5,99.4,25.99
2016-08-15 15:17:30,360.84,369.39,330.57,377.69,375.43,372.46,214.37,215.44,220.36,64.26,63.61,59.36,42.99,47.76,42.2,77.32,79.54,72.83,1.02,0.9,0.89,1.02,0.9,0.89,7278.72,5175.94,8962.43,107.68,99.59,25.95
2016-08-15 15:17:35,359.98,368.92,329.99,378.06,375.82,372.81,214.59,215.65,220.56,64.16,63.54,59.23,43.02,47.87,42.3,77.25,79.56,72.78,1.05,0.93,0.91,1.05,0.93,0.91,7278.97,5176.11,8962.74,107.46,99.1,25.86
2016-08-15 15:17:40,347.46,356.51,317.05,378.86,376.85,373.9,215.27,216.2,221.01,62.43,61.5,57.11,41.31,46.51,40.66,74.86,77.11,70.11,1.03,0.91,0.93,1.03,0.91,0.93,7279.16,5176.24,8962.97,106.92,99.85,25.87
2016-08-15 15:17:45,347.68,356.91,317.25,379.15,377.14,374.2,215.42,216.36,221.21,62.46,61.56,57.17,41.37,46.58,40.73,74.92,77.19,70.2,1.04,0.92,0.9,1.04,0.92,0.9,7279.34,5176.37,8963.19,107.70,99.25,25.94
2016-08-15 15:17:50,340.18,349.02,311.41,379.59,377.64,374.73,215.77,216.64,221.43,61.04,60.23,56.07,40.76,45.71,40.13,73.4,75.61,68.95,1,0.87,0.89,1,0.87,0.89,7279.59,5176.54,8963.48,106.72,99.61,25.98
2016-08-15 15:17:55,328,337.09,301.78,380.52,378.65,375.8,216.48,217.19,221.89,58.83,58.11,54.23,39.77,44.45,39.21,71.01,73.16,66.92,1.01,0.87,0.89,1.01,0.87,0.89,7279.76,5176.67,8963.7,106.2,99.41,25.90
2016-08-15 15:18:00,328.05,337.32,301.85,380.48,378.67,375.73,216.44,217.2,221.87,58.88,58.24,54.27,39.71,44.46,39.24,71.02,73.27,66.97,0.99,0.88,0.89,0.99,0.88,0.89,7279.94,5176.79,8963.92,107.12,99.47,25.86
2016-08-15 15:18:05,327.26,336.61,301.84,381.06,379.18,376.29,216.79,217.5,222.17,58.72,58.19,54.28,39.81,44.43,39.38,70.95,73.21,67.06,0.99,0.86,0.92,0.99,0.86,0.92,7280.16,5176.96,8964.2,107.26,99.49,25.91
2016-08-15 15:18:10,326.31,335.43,301.15,381.15,379.2,376.34,216.85,217.54,222.16,58.35,57.79,53.97,39.72,44.21,39.21,70.59,72.76,66.71,1.04,0.9,0.92,1.04,0.9,0.92,7280.34,5177.08,8964.41,106.43,99.34,25.91
2016-08-15 15:18:15,324.34,333.65,299.52,379.1,376.85,373.83,215.28,216.26,221.04,61.36,61.38,57.61,42.63,46.58,42.1,74.72,77.06,71.36,0.99,0.89,0.9,0.99,0.89,0.9,7280.51,5177.2,8964.62,106.10,99.14,25.99
2016-08-15 15:18:20,334.38,343.6,310.48,380.08,377.91,375.03,216.09,216.82,221.54,59.23,59.02,55.32,41.39,45.46,40.88,72.25,74.5,68.78,1.02,0.88,0.91,1.02,0.88,0.91,7280.74,5177.37,8964.9,106.44,99.47,25.86
2016-08-15 15:18:25,331.41,340.41,307.58,380.6,378.44,375.59,216.45,217.1,221.82,58.4,58.1,54.5,41.37,45.4,40.79,71.56,73.74,68.08,1.04,0.89,0.91,1.04,0.89,0.91,7280.91,5177.5,8965.12,106.93,99.1,25.93
2016-08-15 15:18:30,329.76,338.53,305.77,380.98,378.79,376,216.74,217.28,222.01,58.14,57.74,54.22,41.48,45.48,40.81,71.42,73.5,67.86,0.97,0.84,0.88,0.97,0.84,0.88,7281.08,5177.62,8965.33,107.19,100.15,25.92
2016-08-15 15:18:35,328.63,337.8,305,381.01,378.87,376,216.75,217.33,222.02,57.96,57.62,54.03,41.4,45.48,40.82,71.23,73.41,67.72,0.96,0.85,0.89,0.96,0.85,0.89,7281.31,5177.79,8965.62,106.47,100.22,25.98
2016-08-15 15:18:40,331.91,340.77,307.77,380.51,378.36,375.49,216.41,217.07,221.74,61.02,60.72,56.99,42.02,46.12,41.36,74.08,76.25,70.42,1.02,0.87,0.9,1.02,0.87,0.9,7281.48,5177.92,8965.83,106.95,100.43,25.97
2016-08-15 15:18:45,341.91,350.46,316.82,380.62,378.46,375.63,216.42,217.15,221.86,59.66,59.2,55.54,41.21,45.39,40.54,72.51,74.59,68.76,1.04,0.93,0.95,1.04,0.93,0.95,7281.65,5178.05,8966.04,107.25,100.41,25.85
2016-08-15 15:18:50,322.83,331.07,297.69,381.19,379.15,376.47,216.98,217.5,222.14,57.61,56.88,53.29,39.84,44.15,39.15,70.05,72.01,66.13,1,0.86,0.9,1,0.86,0.9,7281.89,5178.22,8966.34,107.61,100.84,25.96
2016-08-15 15:18:55,320.28,329.12,295.22,381.54,379.52,376.79,217.21,217.71,222.3,57.56,53.52,6.39,68.44,16.39,12.69,45,71.57,65.55,1.03,0.9,0.93,1.03,0.9,0.93,7282.06,5178.34,8966.55,106.33,100.3,25.97
2016-08-15 15:19:00,318.38,327.62,294.19,381.26,379.33,376.59,217.06,217.58,222.19,56.66,56.05,52.4,39.58,43.96,39.05,69.12,71.23,65.35,1.05,0.93,0.93,1.05,0.93,0.93,7282.22,5178.46,8966.75,107.15,100.33,25.93
2016-08-15 15:19:05,317.92,326.77,293.47,381.16,379.18,376.5,217.04,217.49,222.11,56.55,55.89,52.26,39.53,43.9,38.96,69,71.07,65.18,1.02,0.88,0.93,1.02,0.88,0.93,7282.44,5178.63,8967.03,107.30,100.46,25.95
2016-08-15 15:19:10,316.32,324.83,292.01,381.88,379.91,377.24,217.49,217.9,222.51,56.3,55.59,52.06,39.5,43.8,38.88,68.78,70.77,64.97,1.03,0.88,0.91,1.03,0.88,0.91,7282.61,5178.75,8967.23,106.67,100.57,25.89
2016-08-15 15:19:15,316.16,324.67,291.8,381.73,379.8,377.1,217.4,217.83,222.43,56.27,55.55,52.01,39.47,43.77,38.85,68.73,70.73,64.91,1.03,0.89,0.92,1.03,0.89,0.92,7282.77,5178.87,8967.44,107.12,100.32,25.94
2016-08-15 15:19:20,310.53,319.08,286.96,381.82,379.96,377.25,217.5,217.94,222.46,55.38,54.7,51.22,38.67,42.93,38.11,67.54,69.54,63.84,1.04,0.92,0.9,1.04,0.92,0.9,7282.99,5179.03,8967.71,106.63,100.30,25.89
2016-08-15 15:19:25,319.6,328.2,296.1,381.45,379.42,376.71,217.16,217.65,222.26,58.59,58.36,54.95,41.61,45.34,40.94,71.87,73.9,68.53,1.01,0.85,0.92,1.01,0.85,0.92,7283.15,5179.15,8967.91,107.83,100.55,25.95

2016-08-15 15:19:30,324.56,332.95,301.66,381.1,378.95,376.19,216.84,217.42,222.03,57.43,57.05,53.66,40.63,44.5,39.96,70.35,72.35,66.9,1.02,0.89,0.9,1.02,0.89,0.9,7283.32,5179.27,8968.11,107.11,100.90,25.85
2016-08-15 15:19:35,328.73,337.14,305.19,381.04,378.88,376.09,216.75,217.38,222.03,58.48,58.13,54.65,40.71,44.64,40.06,71.25,73.29,67.76,1.02,0.89,0.91,1.02,0.89,0.91,7283.54,5179.44,8968.4,106.34,100.27,25.88
2016-08-15 15:19:40,331.34,339.79,307.48,381.27,379.13,376.24,216.82,217.54,222.17,59.01,58.68,55.19,40.84,44.78,40.2,71.76,73.81,68.28,1.02,0.86,0.9,1.02,0.86,0.9,7283.71,5179.57,8968.61,107.60,100.5,25.88
2016-08-15 15:19:45,330.74,339.3,307.23,380.58,378.48,375.64,216.44,217.16,221.81,58.82,58.55,55.03,40.63,44.59,40.07,71.49,73.59,68.07,1.04,0.92,0.92,1.04,0.92,0.92,7283.88,5179.69,8968.82,107.33,100.76,25.97
2016-08-15 15:19:50,326.85,335.25,303.09,380.74,378.69,375.86,216.58,217.27,221.9,58.32,57.93,54.43,40.12,44.15,39.51,70.79,72.84,67.26,1.11,0.98,0.97,1.11,0.98,0.97,7284.11,5179.86,8969.1,106.54,100.90,25.85
2016-08-15 15:19:55,318.03,326.18,293.76,381.42,379.49,376.79,217.14,217.7,222.29,57.1,56.43,52.91,38.91,43.16,38.28,69.1,71.04,65.31,1.1,0.95,0.96,1.1,0.95,0.96,7284.29,5179.98,8969.32,106.63,100.80,25.97
2016-08-15 15:20:00,321.63,329.59,296.89,381.35,379.33,376.63,217.03,217.61,222.27,58.25,57.54,53.97,39.91,44.18,39.21,70.61,72.55,66.71,1.11,0.98,0.99,1.11,0.98,0.99,7284.45,5180.1,8969.52,107.37,100.81,25.86
2016-08-15 15:20:05,323.59,331.72,298.58,381.37,379.32,376.66,217.07,217.61,222.25,57.96,57.27,53.68,39.68,43.95,39.01,70.24,72.19,66.36,1.07,0.94,0.96,1.07,0.94,0.96,7284.68,5180.27,8969.8,107.13,100.11,25.85
2016-08-15 15:20:10,285.84,294.13,266.06,383.78,382.09,379.29,218.68,219.33,223.4,52.64,52.5,49.16,34.01,37.74,33.69,62.67,64.65,59.6,1.03,0.91,0.93,1.03,0.91,0.93,7284.85,5180.39,8970.01,106.65,100.3,25.94
2016-08-15 15:20:15,287.2,295.54,267.27,383.77,382.09,379.23,218.65,219.35,223.38,52.82,52.7,49.3,34.02,37.8,33.72,62.83,64.85,59.73,1.0,0.88,0.9,1.0,0.88,0.9,7285.06,5180.53,8970.27,107.98,100.32,25.90
2016-08-15 15:20:20,286.89,295.25,267.06,383.67,381.98,379.2,218.63,219.27,223.34,52.67,52.55,49.17,33.94,37.7,33.67,62.65,64.68,59.59,1.04,0.9,0.91,1.04,0.9,0.91,7285.21,5180.64,8970.46,107.91,100.4,25.91
2016-08-15 15:20:25,286.74,295.19,266.92,383.55,381.91,379.06,218.55,219.22,223.29,52.73,52.63,49.2,33.93,37.75,33.69,62.7,64.77,59.63,1.03,0.93,0.92,1.03,0.93,0.92,7285.37,5180.74,8970.64,107.57,100.3,25.85
2016-08-15 15:20:30,286.4,295.01,266.53,383.05,381.42,378.57,218.25,218.96,222.99,52.62,52.54,49.08,33.73,37.58,33.51,62.51,64.59,59.43,1.02,0.91,0.92,1.02,0.91,0.92,7285.57,5180.88,8970.89,106.38,100.73,25.87
2016-08-15 15:20:35,301.07,309.66,282.45,382.35,380.42,377.47,217.58,218.43,222.58,54.39,54.64,51.43,35.87,39.19,35.55,65.16,67.24,62.52,1.02,0.9,0.89,1.02,0.9,0.89,7285.73,5180.99,8971.08,107.49,100.69,25.89
2016-08-15 15:20:40,311.11,319.57,291.34,381.83,379.86,376.91,217.16,218.14,222.35,57.57,57.3,53.88,36.37,39.8,36.06,67.61,69.76,64.83,1.04,0.93,0.93,1.04,0.93,0.93,7285.89,5181.1,8971.28,107.26,100.55,25.91
2016-08-15 15:20:45,304.41,312.81,285.39,382.43,380.53,377.57,217.59,218.49,222.68,55.55,55.83,52.54,36.08,39.42,35.75,66.24,68.35,63.55,1.05,0.92,0.92,1.05,0.92,0.92,7286.11,5181.25,8971.54,107.21,100.48,25.85
2016-08-15 15:20:50,299.69,307.89,280.57,382.29,380.32,377.45,217.58,218.39,222.52,54.2,54.39,51.12,35.3,38.68,34.96,64.68,66.74,61.93,1.02,0.92,0.94,1.02,0.92,0.94,7286.27,5181.36,8971.74,107.5,100.80,25.97
2016-08-15 15:20:55,296.72,304.92,277.87,381.82,379.86,376.99,217.36,218.12,222.21,53.68,53.8,50.61,35.44,38.77,35.04,64.32,66.32,61.56,0.99,0.89,0.91,0.99,0.89,0.91,7286.44,5181.47,8971.94,106.96,100.25,25.93
2016-08-15 15:21:00,254.78,262.79,237.18,384.43,382.87,379.83,219.27,220.22,223.28,47.5,47.45,44.19,29.4,33.03,29.19,55.87,57.82,52.96,0.99,0.87,0.89,0.99,0.87,0.89,7286.65,5181.61,8972.19,106.58,100.62,25.97
2016-08-15 15:21:05,237.01,244.81,221.72,385.82,384.4,381.34,220.23,220.95,223.9,44.9,44.97,41.9,26.54,29.99,26.57,52.15,54.05,49.61,1.01,0.9,0.87,1.01,0.9,0.87,7286.8,5181.71,8972.37,106.41,100.56,25.96
2016-08-15 15:21:10,236.54,244.43,221.34,385.74,384.4,381.34,220.21,220.91,223.92,44.79,44.9,41.82,26.49,29.94,26.55,52.04,53.97,49.53,1.04,0.93,0.92,1.04,0.93,0.92,7286.93,5181.79,8972.53,107.70,100.91,25.92
2016-08-15 15:21:15,236.09,244.21,220.91,385.27,383.94,380.85,219.9,220.68,223.64,44.74,44.88,41.73,26.34,29.83,26.44,51.91,53.89,49.41,1.03,0.93,0.9,1.03,0.93,0.9,7287.1,5181.9,8972.74,106.20,100.67,25.96
2016-08-15 15:21:20,236.58,244.65,221.51,385.39,384.08,380.99,219.99,220.73,223.74,44.86,45.41,88.26,39.29,86.26,48.52,05.54,01.49,55.1,1.03,0.95,0.92,1.03,0.95,0.92,7287.24,5181.99,8972.89,106.52,100.96,25.91
2016-08-15 15:21:25,237.01,245.19,221.9,385.25,383.94,380.85,219.88,220.67,223.66,44.91,45.07,41.95,26.37,29.84,26.48,52.08,54.05,49.61,1.01,0.89,0.9,1.01,0.89,0.9,7287.37,5182.07,8973.05,106.3,100.56,25.98
2016-08-15 15:21:30,237.1,245.3,222.19,385.12,383.83,380.77,219.83,220.6,223.61,44.97,45.16,42.03,26.35,29.82,26.49,52.12,54.11,49.68,1.02,0.9,0.92,1.02,0.9,0.92,7287.54,5182.18,8973.25,106.35,100.54,25.92
2016-08-15 15:21:35,237.56,245.77,222.43,385.18,383.9,380.77,219.82,220.66,223.61,45.17,45.35,42.18,26.32,29.82,26.47,52.28,54.28,49.8,1.04,0.93,0.91,1.04,0.93,0.91,7287.68,5182.26,8973.41,106.5,100.38,25.93
2016-08-15 15:21:40,241.66,249.77,226.55,383.91,382.15,378.93,218.7,219.74,222.87,48.54,49.2,46.14,29.6,32.55,29.68,56.85,59.54,86.1,1.01,0.9,0.92,1.01,0.9,0.92,7287.81,5182.34,8973.57,107.91,100.92,25.93
2016-08-15 15:21:45,249.51,257.65,235.51,384.72,383.08,379.95,219.36,220.23,223.3,46.78,47.22,44.24,28.41,31.46,28.43,54.73,56.74,52.59,0.99,0.9,0.88,0.99,0.9,0.88,7287.99,5182.46,8973.78,107.53,100.6,25.93
2016-08-15 15:21:50,248.32,256.38,234.08,384.48,382.81,379.71,219.26,220.1,223.11,46.44,46.81,43.82,28.24,31.32,28.23,54.35,56.32,52.13,0.98,0.91,0.86,0.98,0.91,0.86,7288.13,5182.55,8973.95,107.16,100.30,25.85
2016-08-15 15:21:55,247.63,255.8,233.58,384.86,383.27,380.07,219.47,220.34,223.35,46.36,46.79,43.78,28.32,31.43,28.35,54.33,56.36,52.16,1.02,0.92,0.92,1.02,0.92,0.92,7288.27,5182.63,8974.11,107.84,100.71,25.94
2016-08-15 15:22:00,247.14,255.53,233.25,384.86,383.28,380.1,219.48,220.34,223.36,46.27,46.72,43.69,28.3,31.42,28.38,54.24,56.3,52.1,1.03,0.9,0.89,1.03,0.9,0.89,7288.45,5182.75,8974.33,106.81,100.81,25.85
2016-08-15 15:22:05,247.21,255.54,233.4,385.12,383.55,380.36,219.63,220.48,223.52,45.54,45.85,42.8,27.61,30.87,27.68,53.25,55.28,50.97,1.0,0.89,0.88,1.0,0.89,0.88,7288.59,5182.84,8974.49,107.63,100.19,25.89

2016-08-15 15:22:10,235.61,243.61,220.49,386.04,384.68,381.63,220.4,221.1,224.05,44.65,44.73,41.64,26.54,30.26,6.51,94.53,86.49,41.1,0.02,0.9,0.88,1.02,0.9,0.88,7288.72,5182.93,8974.65,107.48,100.84,25.87
2016-08-15 15:22:15,235.57,243.15,221.45,386.26,385,382.16,220.62,221.19,224.35,44.56,44.69,41.86,26.74,29.92,26.76,51.97,53.78,49.68,1.03,0.92,0.97,1.03,0.92,0.97,7288.9,5183.04,8974.86,106.47,100.44,25.86
2016-08-15 15:22:20,235.85,243.48,222.09,386.42,385.24,382.4,220.71,221.31,224.5,44.64,44.85,42.03,26.74,29.9,26.83,52.04,53.9,49.87,1.03,0.92,0.95,1.03,0.92,0.95,7289.03,5183.12,8975.01,107.40,100.6,25.99
2016-08-15 15:22:25,236.46,244.11,222.6,386.2,385,382.1,220.55,221.19,224.35,44.84,44.99,42.15,26.73,29.9,26.78,52.2,54.03,49.94,1.02,0.91,0.97,1.02,0.91,0.97,7289.16,5183.2,8975.17,107.33,100.46,25.96
2016-08-15 15:22:30,237.7,245.15,223.52,386.17,384.95,382.08,220.52,221.18,224.33,45.07,45.21,42.38,26.76,29.93,26.79,52.42,54.22,50.14,1.02,0.93,0.96,1.02,0.93,0.96,7289.34,5183.31,8975.38,106.23,100.0,25.90
2016-08-15 15:22:35,238.9,246.02,224.33,386.05,384.75,381.9,220.43,221.1,224.21,45.65,45.7,42.9,26.87,30.04,26.82,52.97,54.69,50.6,1,0.88,0.95,1,0.88,0.95,7289.47,5183.4,8975.53,106.7,100.63,25.87
2016-08-15 15:22:40,254.47,261.43,238.58,385.42,384.07,381.15,219.85,220.76,223.95,48.49,48.61,45.65,27.47,30.72,27.43,55.73,57.51,53.26,0.99,0.88,0.93,0.99,0.88,0.93,7289.6,5183.48,8975.69,106.67,100.29,25.86
2016-08-15 15:22:45,265.72,273.34,252.3,384.28,382.65,379.63,218.93,219.97,223.33,49.97,50.62,47.85,29.79,32.44,29.76,58.18,60.12,56.34,0.98,0.89,0.97,0.98,0.89,0.97,7289.79,5183.59,8975.91,107.90,100.89,25.99
2016-08-15 15:22:50,256.29,264.13,242.98,385.06,383.6,380.61,219.55,220.45,223.78,48.13,48.64,45.83,28.85,31.69,28.89,56.11,58.06,54.17,0.99,0.88,0.91,0.99,0.88,0.91,7289.93,5183.68,8976.08,106.65,100.97,25.98
2016-08-15 15:22:55,254.29,262.04,240.87,385.16,383.7,380.66,219.63,220.52,223.78,47.85,48.36,45.55,28.76,31.61,28.78,55.83,57.78,53.88,1.01,0.9,0.92,1.01,0.9,0.92,7290.08,5183.77,8976.25,107.34,100.30,25.85
2016-08-15 15:23:00,252.81,260.67,239.49,385.52,384.06,381.09,219.89,220.71,223.99,47.56,48.05,45.25,28.77,31.64,28.8,55.59,57.53,53.64,1,0.9,0.93,1,0.9,0.93,7290.27,5183.89,8976.48,107.57,100.10,25.93
2016-08-15 15:23:05,252.45,260.21,238.88,385.55,384.03,381.09,219.91,220.71,223.97,47.39,47.86,45.04,28.69,31.56,28.7,55.39,57.33,53.41,1.01,0.9,0.93,1.01,0.9,0.93,7290.41,5183.98,8976.64,107.29,100.17,25.92
2016-08-15 15:23:10,252.67,260.51,239.23,385.18,383.68,380.7,219.67,220.52,223.75,47.45,47.91,45.1,28.64,31.52,28.66,55.43,57.35,53.43,1.02,0.91,0.93,1.02,0.91,0.93,7290.55,5184.07,8976.81,106.56,100.51,25.99
2016-08-15 15:23:15,245.35,252.78,230.87,385.92,384.51,381.64,220.25,220.97,224.16,46.44,46.64,43.78,27.62,30.74,27.6,54.04,55.86,51.75,0.99,0.85,0.93,0.99,0.85,0.93,7290.74,5184.18,8977.03,107.79,100.53,25.96
2016-08-15 15:23:20,239.99,247.56,225.31,386.3,385.04,382.16,220.55,221.25,224.4,45.66,45.78,42.86,26.85,30.12,26.89,52.97,54.8,50.59,0.99,0.87,0.95,0.99,0.87,0.95,7290.88,5184.27,8977.19,106.21,100.99,25.99
2016-08-15 15:23:25,240.04,247.55,225.39,386.73,385.46,382.6,220.82,221.48,224.65,45.64,45.76,42.85,26.92,30.17,26.96,52.99,54.81,50.62,1.01,0.9,0.93,1.01,0.9,0.93,7291.01,5184.35,8977.35,107.91,100.32,25.99
2016-08-15 15:23:30,239.87,247.29,225.26,386.38,385.11,382.25,220.61,221.29,224.45,45.6,45.72,42.83,26.85,30.07,26.87,52.92,54.72,50.56,1.03,0.92,0.94,1.03,0.92,0.94,7291.19,5184.47,8977.57,107.10,100.2,25.85
2016-08-15 15:23:35,239.75,247.26,225.23,386.23,384.98,382.1,220.52,221.22,224.36,45.59,45.75,42.84,26.8,30.02,26.85,52.88,54.72,50.56,1.06,0.93,0.95,1.06,0.93,0.95,7291.32,5184.55,8977.72,107.0,100.95,25.86
2016-08-15 15:23:40,240.1,247.58,225.53,385.89,384.62,381.75,220.3,221.03,224.16,45.73,45.86,42.95,26.76,29.98,26.78,52.98,54.79,50.62,1.06,0.93,0.95,1.06,0.93,0.95,7291.46,5184.63,8977.88,107.45,100.99,25.91
2016-08-15 15:23:45,240.36,247.89,225.74,386.11,384.86,381.99,220.43,221.16,224.3,45.72,45.87,42.95,26.77,30.02,26.83,52.98,54.82,50.63,1.03,0.89,0.92,1.03,0.89,0.92,7291.64,5184.74,8978.09,107.27,100.55,25.98
2016-08-15 15:23:50,240.57,248.18,225.95,386.23,384.97,382.07,220.5,221.21,224.36,48.07,48.57,45.68,29.13,32.02,29.17,56.21,58.17,54.2,1.03,0.91,0.94,1.03,0.91,0.94,7291.77,5184.83,8978.25,106.97,100.73,25.90
2016-08-15 15:23:55,253.44,261.33,240.46,385.15,383.61,380.65,219.65,220.49,223.71,47.36,47.9,45.1,28.74,31.55,28.77,55.4,57.35,53.5,1.02,0.9,0.96,1.02,0.9,0.96,7291.91,5184.91,8978.41,107.77,100.1,25.94
2016-08-15 15:24:00,250.59,258.32,237.36,385.46,384.01,381.05,219.89,220.67,223.93,47.03,47.48,44.74,28.7,31.54,28.7,55.1,57.53,53.15,0.98,0.88,0.92,0.98,0.88,0.92,7292.1,5185.03,8978.63,106.35,100.24,25.95
2016-08-15 15:24:05,249.57,257.39,236.6,385.45,384,381.03,219.89,220.66,223.93,46.7,47.18,44.46,28.69,31.49,28.7,54.81,56.72,52.92,1,0.89,0.92,1,0.89,0.92,7292.23,5185.12,8978.8,107.26,100.80,25.98
2016-08-15 15:24:10,248.59,256.49,235.82,385.44,384.02,380.98,219.88,220.66,223.9,46.57,47.09,44.31,28.6,31.46,28.64,54.65,56.63,52.76,1.02,0.93,0.94,1.02,0.93,0.94,7292.37,5185.21,8978.96,106.60,100.29,25.89
2016-08-15 15:24:15,248.59,256.6,235.96,385.06,383.63,380.67,219.68,220.44,223.71,46.56,47.1,44.37,28.54,31.32,28.59,54.61,56.57,52.79,1.02,0.9,0.95,1.02,0.9,0.95,7292.56,5185.32,8979.18,107.74,100.60,25.86
2016-08-15 15:24:20,236.52,244.2,222.41,385.88,384.67,381.73,220.34,221.02,224.14,44.82,44.94,42.06,26.64,29.88,26.69,52.13,53.97,49.81,0.99,0.87,0.93,0.99,0.87,0.93,7292.7,5185.41,8979.35,106.94,100.52,25.94
2016-08-15 15:24:25,236.4,244.03,222.34,385.94,384.71,381.86,220.48,221.09,224.06,44.83,44.95,42.09,26.66,29.88,26.71,52.16,53.98,49.85,1.01,0.88,0.94,1.01,0.88,0.94,7292.83,5185.49,8979.5,107.45,100.35,25.85
2016-08-15 15:24:30,236.62,244.02,222.49,386.73,385.49,382.65,220.97,221.52,224.5,44.85,44.92,42.12,26.87,30.06,26.85,52.29,54.05,49.95,1.01,0.88,0.93,1.01,0.88,0.93,7293,5185.6,8979.71,107.3,100.91,25.92
2016-08-15 15:24:35,237.17,244.28,222.98,386.75,385.5,382.68,220.99,221.52,224.52,47.47,09,44.14,27.26,30.56,27.22,54.34,56.14,51.85,1.02,0.92,0.95,1.02,0.92,0.95,7293.14,5185.69,8979.87,107.45,100.30,25.88
2016-08-15 15:24:40,250.33,257.67,235.06,385.66,384.36,381.4,220.12,220.95,223.94,47.33,47.46,44.52,27.27,30.51,27.24,54.62,56.42,52.19,1.02,0.92,0.96,1.02,0.92,0.96,7293.27,5185.77,8980.02,107.25,100.37,25.96
2016-08-15 15:24:45,243.11,250.68,228.34,386.22,384.88,382,220.54,221.23,224.2,46.31,46.44,43.47,27.02,30.31,27.05,53.62,55.46,51.19,1.01,0.87,0.95,1.01,0.87,0.95,7293.45,5185.88,8980.24,107.59,100.2,25.91

2016-08-15 15:24:50,240.88,248.39,226.45,386.17,384.89,382.01,220.55,221.21,224.2,45.78,45.91,43.02,26.89,30.12,26.92,53.09,54.91,50.75,1.01,0.9,0.96,1.01,0.9,0.96,7293.59,5185.97,8980.4,107.49,100.88,25.98
2016-08-15 15:24:55,239.87,247.25,225.38,386.66,385.4,382.53,220.87,221.48,224.47,45.61,45.69,42.83,26.96,30.2,26.94,52.98,54.76,50.6,0.98,0.88,0.91,0.98,0.88,0.91,7293.73,5186.05,8980.56,107.80,100.49,25.99
2016-08-15 15:25:00,255.5,263.3,242.63,385.48,383.88,380.87,219.88,220.68,223.77,47.89,48.44,45.69,29.36,32.09,29.32,56.18,58.11,54.29,1.01,0.89,0.94,1.01,0.89,0.94,7293.91,5186.16,8980.77,107.48,100.57,25.91
2016-08-15 15:25:05,250.21,257.89,237.19,385.97,384.43,381.52,220.29,220.97,224.05,46.81,47.23,44.5,28.86,31.67,28.81,54.99,56.86,53.02,1.01,0.87,0.94,1.01,0.87,0.94,7294.05,5186.25,8980.94,107.72,100.17,25.86
2016-08-15 15:25:10,248.67,256.32,235.68,386.23,384.72,381.8,220.47,221.12,224.19,46.61,47.02,44.31,28.84,31.66,28.81,54.81,56.69,52.85,1.02,0.88,0.95,1.02,0.88,0.95,7294.19,5186.34,8981.11,107.23,100.46,25.99
2016-08-15 15:25:15,248.51,256.2,235.54,386.01,384.48,381.56,220.33,221.01,224.05,46.58,46.99,44.26,28.77,31.59,28.73,54.75,56.62,52.77,1.02,0.89,0.95,1.02,0.89,0.95,7294.37,5186.46,8981.33,106.94,100.45,25.99
2016-08-15 15:25:20,248.44,256.27,235.44,386.1,384.6,381.62,220.38,221.06,224.09,46.58,47.44,23.28,28.69,31.55,28.68,54.7,56.61,52.71,1.04,0.91,0.96,1.04,0.91,0.96,7294.51,5186.55,8981.49,107.55,100.80,25.97
2016-08-15 15:25:25,248.39,256.11,235.41,386.56,385.24,382.36,220.8,221.4,224.38,45.32,45.44,42.64,27.3,30.43,27.27,52.9,54.68,50.61,1.04,0.91,0.97,1.04,0.91,0.97,7294.65,5186.64,8981.65,107.25,100.24,25.93
2016-08-15 15:25:30,237.2,244.25,222.99,386.71,385.44,382.64,220.96,221.5,224.49,44.97,45.42,27.26,91,30.03,26.83,52.41,54.1,50.06,1.02,0.9,0.94,1.02,0.9,0.94,7294.83,5186.75,8981.87,107.16,100.85,25.89
2016-08-15 15:25:35,238.16,245.22,223.96,386.72,385.46,382.68,220.95,221.5,224.54,45.13,45.17,42.43,26.96,30.07,26.88,52.57,54.26,50.23,0.99,0.89,0.96,0.99,0.89,0.96,7294.96,5186.84,8982.03,106.8,100.82,25.87
2016-08-15 15:25:40,237.9,244.97,223.57,387.17,385.84,383.09,221.22,221.74,224.75,45.24,45.2,42.49,27.05,30.16,26.9,52.71,54.34,50.29,1.01,0.87,0.94,1.01,0.87,0.94,7295.09,5186.92,8982.18,106.62,100.52,25.94
2016-08-15 15:25:45,238.63,245.58,224.23,386.37,385.09,382.31,220.72,221.31,224.32,45.3,45.32,42.58,26.87,30.26,78.52,67.54,35.50,3.1,0.3,0.91,0.95,1.03,0.91,0.95,7295.27,5187.03,8982.39,107.54,100.89,25.93
2016-08-15 15:25:50,239.5,246.6,225.15,386.39,385.15,382.33,220.71,221.35,224.34,45.54,45.62,42.81,26.92,30.09,26.88,52.9,54.65,50.55,1,0.89,0.95,1,0.89,0.95,7295.4,5187.11,8982.55,107.22,100.83,25.98
2016-08-15 15:25:55,239.68,246.89,225.38,386.51,385.26,382.47,220.79,221.4,224.44,45.59,45.65,42.88,26.93,30.08,26.87,52.95,54.68,50.61,1.02,0.9,0.95,1.02,0.9,0.95,7295.54,5187.2,8982.71,106.38,100.60,25.90
2016-08-15 15:26:00,240.83,247.74,226.15,386.87,385.56,382.79,221.03,221.58,224.59,45.84,45.83,43.07,27.05,30.22,26.92,53.23,54.9,50.79,0.99,0.86,0.92,0.99,0.86,0.92,7295.72,5187.31,8982.92,106.87,100.57,25.98
2016-08-15 15:26:05,257.1,264.25,243.97,385.85,384.18,381.31,220.13,220.86,223.98,47.8,48.18,45.57,29.1,31.78,28.94,55.96,57.72,53.98,0.95,0.84,0.9,0.95,0.84,0.9,7295.85,5187.39,8983.08,107.44,100.50,25.90
2016-08-15 15:26:10,252.95,260.17,239.62,385.84,384.31,381.47,220.18,220.9,224.05,47.47,47.82,45.18,28.91,31.64,28.79,55.57,57.34,53.57,0.98,0.89,0.9,0.98,0.89,0.9,7295.99,5187.48,8983.25,107.28,100.29,25.93
2016-08-15 15:26:15,252.63,259.7,239.22,385.85,384.32,381.51,220.21,220.91,224.05,47.53,47.85,45.22,28.9,31.65,28.77,55.63,57.37,53.6,1.01,0.88,0.92,1.01,0.88,0.92,7296.18,5187.6,8983.47,107.68,100.43,25.90
2016-08-15 15:26:20,252.56,259.63,239.16,385.45,383.92,381.13,219.88,220.65,223.95,47.44,47.81,45.16,28.63,31.34,28.54,55.41,57.17,53.42,1.08,0.99,0.96,1.08,0.99,0.96,7296.32,5187.69,8983.63,107.17,100.58,25.87
2016-08-15 15:26:25,252.64,259.62,239.1,385.66,384.09,381.26,219.99,220.74,224.04,47.55,47.89,45.26,28.86,31.58,28.72,55.62,57.36,53.6,1,0.89,0.88,1,0.89,0.88,7296.46,5187.78,8983.8,107.2,100.69,25.86
2016-08-15 15:26:30,291.79,298.22,272.9,382.16,380.16,377.52,217.69,218.37,222.29,53.24,53.50,19.34,64.37,84.34,08.63,52.65,12.60,66.09,0.85,0.89,0.97,0.85,0.89,7296.65,5187.89,8984.02,106.25,100.51,25.91
2016-08-15 15:26:35,282.49,288.76,262.33,382.62,380.79,378.2,218.14,218.74,222.49,53.12,52.56,49.57,33.4,37.02,32.84,62.75,64.29,59.46,1,0.88,0.92,1,0.88,0.92,7296.8,5188.03,8984.21,107.85,100.26,25.91
2016-08-15 15:26:40,284.78,291.27,264.63,382.78,381.02,378.36,218.17,218.85,222.67,52.39,51.9,48.89,33.06,36.71,32.6,61.95,63.57,58.76,1.01,0.92,0.9,1.01,0.92,0.9,7296.95,5188.13,8984.39,107.97,100.26,25.99
2016-08-15 15:26:45,281.15,288.19,261.59,382.61,380.88,378.21,218.09,218.77,222.56,51.83,51.45,48.36,32.76,36.44,32.42,61.32,63.05,58.22,1.02,0.94,0.94,1.02,0.94,0.94,7297.16,5188.27,8984.64,106.49,100.6,25.98
2016-08-15 15:26:50,279.15,286.16,259.72,383.43,381.75,379.03,218.61,219.25,223.01,51.29,50.89,47.82,32.76,36.46,32.43,60.86,62.6,57.78,1.02,0.91,0.94,1.02,0.91,0.94,7297.31,5188.37,8984.82,107.6,100.17,25.92
2016-08-15 15:26:55,278.12,285.39,258.97,383.18,381.52,378.83,218.48,219.1,222.89,51.13,50.78,47.69,32.72,36.42,32.44,60.7,62.49,57.68,1.03,0.91,0.94,1.03,0.91,0.94,7297.46,5188.47,8985.106,87,100.39,25.88
2016-08-15 15:27:00,277.38,284.67,258.25,383.35,381.72,378.97,218.58,219.2,222.98,51.03,50.65,47.59,32.74,36.45,32.42,60.63,62.4,57.58,1.04,0.92,0.93,1.04,0.92,0.93,7297.66,5188.6,8985.25,106.43,100.71,25.95
2016-08-15 15:27:05,277.57,284.81,258.22,383.36,381.71,378.99,218.59,219.2,222.98,51.21,50.79,47.7,32.77,36.51,32.45,60.79,62.55,57.69,1.02,0.9,0.93,1.02,0.9,0.93,7297.81,5188.7,8985.43,107.55,100.7,25.98
2016-08-15 15:27:10,278.88,285.84,259.18,383.55,381.82,379.17,218.7,219.29,223.06,51.41,50.93,47.85,32.85,36.58,32.47,61.01,62.71,57.82,1.04,0.96,0.95,1.04,0.96,0.95,7297.96,5188.81,8985.61,107.64,100.23,25.85
2016-08-15 15:27:15,298.19,305.22,279.39,382.07,380.37,377.17,217.46,218.34,222.21,54.3,54.27,51.28,35.45,38.68,34.99,64.85,66.64,62.08,1.03,0.92,0.95,1.03,0.92,0.95,7298.16,5188.94,8985.85,107.70,100.90,25.92
2016-08-15 15:27:20,291.71,298.65,272.67,382.32,380.32,377.56,217.72,218.52,222.32,53.19,52.98,50.02,34.67,37.99,34.16,63.49,65.2,60.57,1.05,0.94,0.96,1.05,0.94,0.96,7298.32,5189.05,8986.04,106.11,100.37,25.93
2016-08-15 15:27:25,291.09,298.15,272.18,381.74,379.77,377.21,217.38,218.2,222.53,53.11,52.98,49.94,34.44,37.82,34.03,63.3,65.09,60.44,1.03,0.91,0.95,1.03,0.91,0.95,7298.47,5189.15,8986.23,106.39,100.73,25.94

2016-08-15 15:27:30,289.96,297.06,271.15,382.19,380.23,377.41,217.66,218.44,222.24,52.85,52.7,49.72,34.5,37.86,34.05,63.11,64.89,60.26,0.99,0.9,0.88,0.99,0.9,0.88,7298.68,5189.3,8986.48,106.31,100.47,25.97
2016-08-15 15:27:35,289.75,296.92,270.98,382.68,380.72,377.94,217.97,218.71,222.54,52.76,52.64,49.61,34.53,37.93,34.12,63.05,64.88,60.22,1.02,0.92,0.9,1.02,0.92,0.9,7298.84,5189.4,8986.67,106.73,100.38,25.91
2016-08-15 15:27:40,288.85,296.27,270.22,382.64,380.74,377.87,217.95,218.71,222.5,52.6,52.5,49.43,34.52,37.98,34.16,62.92,64.8,60.09,1.01,0.91,0.9,1.01,0.91,0.9,7298.99,5189.51,8986.86,106.31,100.86,25.98
2016-08-15 15:27:45,275.96,283.4,256.4,383.39,381.71,378.96,218.62,219.22,222.93,50.74,50.3,47.14,32.64,36.46,32.32,60.33,62.13,57.16,1.0,0.88,0.88,1.0,0.88,0.88,7299.2,5189.65,8987.11,107.89,100.58,25.87
2016-08-15 15:27:50,276.35,283.83,256.86,384.42,382.73,379.98,219.24,219.78,223.53,50.79,50.31,47.21,33.12,36.92,32.77,60.64,62.41,57.47,0.99,0.87,0.91,0.99,0.87,0.91,7299.35,5189.75,8987.29,106.15,100.57,25.94
2016-08-15 15:27:55,275.79,283.13,256.47,384.97,383.26,380.61,219.63,220.06,223.85,50.7,50.19,47.16,33.13,36.87,32.74,60.57,62.28,57.41,0.99,0.89,0.93,0.99,0.89,0.93,7299.49,5189.85,8987.47,107.40,100.89,25.98
2016-08-15 15:28:00,275.62,282.9,256.48,385.93,384.24,381.52,220.17,220.6,224.41,50.68,50.19,47.17,33.38,37.1,32.98,60.68,62.41,57.56,1.01,0.88,0.89,1.01,0.88,0.89,7299.69,5189.99,8987.71,107.71,100.75,25.87
2016-08-15 15:28:05,276.11,283.14,256.83,385.46,383.74,381.06,219.89,220.34,224.13,50.83,50.24,47.28,33.3,36.97,32.79,60.77,62.38,57.54,1.02,0.9,0.92,1.02,0.9,0.92,7299.84,5190.09,8987.89,107.60,100.88,25.88
2016-08-15 15:28:10,276.34,283.36,256.85,385.65,383.89,381.2,220.22,220.44,224.2,50.85,50.29,47.25,33.32,37.07,32.88,60.79,62.48,57.56,0.99,0.87,0.94,0.99,0.87,0.94,7299.99,5190.19,8988.07,106.46,100.44,25.96
2016-08-15 15:28:15,294.8,302.1,272.57,384.77,382.85,380.23,219.35,219.77,223.86,53.37,52.67,49.44,36.51,40.42,35.77,64.66,66.39,61.02,1.01,0.89,0.9,1.01,0.89,0.9,7300.19,5190.33,8988.31,107.27,100.36,25.89
2016-08-15 15:28:20,292.14,299.23,270.1,385.18,383.32,380.67,219.6,220.04,224.1,53.57,52.86,49.58,35.34,39.36,34.79,64.18,65.91,60.57,0.99,0.89,0.92,0.99,0.89,0.92,7300.34,5190.44,8988.49,107.36,100.64,25.98
2016-08-15 15:28:25,313.27,320.61,291.88,383.91,381.76,378.98,218.56,219.23,223.35,55.76,55.4,52.22,37.43,41.03,36.8,67.16,68.94,63.88,0.97,0.84,0.88,0.97,0.84,0.88,7300.49,5190.55,8988.68,106.9,100.36,25.99
2016-08-15 15:28:30,304.09,311.1,282.69,384.36,382.26,379.56,218.92,219.48,223.62,55.18,54.69,51.56,37.24,40.89,36.57,66.57,68.28,63.22,0.98,0.87,0.89,0.98,0.87,0.89,7300.71,5190.7,8988.95,107.42,100.33,25.90
2016-08-15 15:28:35,317.85,325.11,294.95,383.64,381.44,378.57,218.25,219.1,223.22,58.19,57.78,54.35,37.8,41.63,37.14,69.39,71.21,65.83,1.0,0.86,0.9,1.0,0.86,0.9,7300.87,5190.81,8989.15,107.17,100.65,25.90
2016-08-15 15:28:40,314.2,320.97,291.5,383.98,381.77,379.04,218.56,219.25,223.41,57.56,49.53,22.37,51.41,24.36,79.68,23.69,94.64,7.1,0.01,0.85,0.91,1.01,0.85,0.91,7301.04,5190.93,8989.35,107.68,100.21,25.93
2016-08-15 15:28:45,309.77,316.43,287.07,383.91,381.75,379.01,218.54,219.25,223.36,56.5,55.93,52.68,37.29,41.05,36.55,67.7,69.38,64.12,0.98,0.87,0.88,0.98,0.87,0.88,7301.26,5191.08,8989.62,107.80,100.60,25.86
2016-08-15 15:28:50,308.58,315.57,286.19,384.12,382.01,379.24,218.53,219.56,223.46,56.11,55.55,52.27,37.16,40.95,36.47,67.3,69.02,63.74,0.98,0.85,0.85,0.98,0.85,0.85,7301.43,5191.2,8989.82,106.41,100.39,25.92
2016-08-15 15:28:55,313.16,319.9,290.01,384.38,382.38,379.73,218.98,219.59,223.63,55.22,54.34,50.94,36.13,40.3,35.43,65.99,67.65,62.05,0.98,0.85,0.9,0.98,0.85,0.9,7301.59,5191.31,8990.02,106.41,100.7,25.88
2016-08-15 15:29:00,300.5,307.34,276.7,384.64,382.67,380.03,219.15,219.74,223.79,55.07,54.18,50.78,36.11,40.31,35.44,65.85,67.54,61.92,0.93,0.85,0.85,0.93,0.85,0.85,7301.81,5191.46,8990.29,107.88,100.22,25.85
2016-08-15 15:29:05,301.13,308.18,277.37,384.74,382.75,380.12,219.21,219.79,223.85,55.2,54.34,50.89,36.06,40.29,35.41,65.93,67.65,62.0,0.98,0.85,0.86,0.98,0.85,0.86,7301.97,5191.58,8990.49,107.17,100.55,25.96
2016-08-15 15:29:10,301.15,308.18,277.24,384.46,382.48,379.82,219.01,219.66,223.68,55.27,54.43,50.94,36.03,40.29,35.4,65.98,67.72,62.04,0.97,0.85,0.9,0.97,0.85,0.9,7302.13,5191.69,8990.68,107.22,100.28,25.91
2016-08-15 15:29:15,301.93,309.12,278.13,384.74,382.78,380.09,219.16,219.82,223.86,55.44,54.64,51.13,36.12,40.4,35.53,66.17,67.95,62.26,0.98,0.87,0.89,0.98,0.87,0.89,7302.35,5191.84,8990.94,106.14,100.28,25.92
2016-08-15 15:29:20,303.09,309.8,278.88,384.44,382.42,379.77,218.96,219.65,223.67,55.78,54.91,51.45,36.06,40.28,35.37,66.42,68.1,62.44,0.99,0.89,0.9,0.99,0.89,0.9,7302.51,5191.95,8991.14,106.0,100.22,25.88
2016-08-15 15:29:25,304.39,311.15,280.17,384.55,382.52,379.85,219.01,219.7,223.73,56.03,55.17,51.69,36.16,40.39,35.47,66.68,68.37,62.69,0.98,0.87,0.87,0.98,0.87,0.87,7302.67,5192.06,8991.34,107.89,100.50,25.89
2016-08-15 15:29:30,305.29,312.16,280.97,384.02,381.99,379.29,218.66,219.42,223.43,56.23,55.41,51.87,35.98,40.26,35.35,66.76,68.49,62.78,0.97,0.85,0.88,0.97,0.85,0.88,7302.89,5192.21,8991.6,106.20,100.7,25.92
2016-08-15 15:29:35,304.54,311.51,283.49,384.12,381.93,379.09,218.53,219.53,223.36,52.25,52.43,49.37,31.74,34.86,31.43,61.13,62.96,58.52,0.98,0.88,0.91,0.98,0.88,0.91,7303.05,5192.32,8991.8,107.4,100.96,25.94
2016-08-15 15:29:40,273.55,280.33,256.07,386.24,384.32,381.56,220.11,220.92,224.4,51.21,51.19,48.19,31.26,34.43,30.87,60.61,7.57,23.0,0.98,0.88,0.89,0.98,0.88,0.89,7303.21,5192.43,8992.1,106.80,100.25,25.77
2016-08-15 15:29:45,270.23,276.92,252.99,386.25,384.38,381.66,220.17,220.93,224.43,50.67,50.65,47.7,31.17,34.32,30.79,59.49,61.18,56.78,0.97,0.87,0.92,0.97,0.87,0.92,7303.41,5192.55,8992.24,107.76,100.39,25.77
2016-08-15 15:29:50,269.52,276.03,252.08,386.49,384.55,381.87,220.34,221.04,224.51,50.42,50.3,47.42,31.25,34.36,30.78,59.32,60.92,56.53,0.98,0.87,0.92,0.98,0.87,0.92,7303.56,5192.65,8992.41,106.63,100.37,25.75
2016-08-15 15:29:55,268.5,275.06,251.38,386.37,384.48,381.8,220.27,220.99,224.48,50.2,50.14,47.25,31.17,34.28,30.75,59.09,60.73,56.37,0.96,0.85,0.88,0.96,0.85,0.88,7303.71,5192.75,8992.59,107.84,100.37,25.84
2016-08-15 15:30:00,267.99,274.55,250.95,386.8,384.97,382.2,220.53,221.24,224.72,50.13,50.06,47.2,31.3,34.4,30.86,59.1,60.74,56.39,0.98,0.85,0.9,0.98,0.85,0.9,7303.91,5192.87,8992.83,107.82,100.57,25.78
2016-08-15 15:30:05,267.75,274.38,250.77,386.91,385.03,382.36,220.63,221.28,224.78,50.05,49.99,47.09,31.31,34.44,30.9,59.03,60.71,56.32,0.95,0.85,0.89,0.95,0.85,0.89,7304.06,5192.97,8993.1,106.12,100.31,25.77

2016-08-15 15:30:10,266.37,273.02,249.13,387.7,386.03,383.4,221.31,221.84,225.16,48.33,47.89,44.87,29.41,32.95,29.01,56.57,58.13,53.44,0.98,0.86,0.9,0.98,0.86,0.9,7304.2,5193.07,8993.18,106.83,100.77,25.78
2016-08-15 15:30:15,255.66,262.25,237.84,387.51,385.9,383.29,221.21,221.74,225.12,48.32,47.96,44.98,29.39,32.88,29.05,56.55,58.15,53.54,1.02,0.88,0.92,1.02,0.88,0.92,7304.4,5193.19,8993.41,106.35,100.30,25.77
2016-08-15 15:30:20,255.78,262.37,238.17,387.43,385.88,383.28,221.15,221.7,225.15,48.4,48.09,45.12,29.37,32.82,29.05,56.61,58.23,53.67,1.01,0.88,0.94,1.01,0.88,0.94,7304.54,5193.28,8993.58,107.51,100.50,25.77
2016-08-15 15:30:25,256.7,263.45,239.02,387.77,386.22,383.58,221.33,221.89,225.35,48.62,48.33,45.31,29.48,32.99,29.19,56.86,58.51,53.9,0.98,0.86,0.92,0.98,0.86,0.92,7304.68,5193.37,8993.75,106.73,100.33,25.79
2016-08-15 15:30:30,258.13,264.62,240.13,387.66,386.09,383.48,221.26,221.82,225.28,48.9,48.54,45.57,29.5,33.29,15.57,11.58,7.54,1.0,0.99,0.85,0.91,0.99,0.85,0.91,7304.87,5193.49,8993.97,106.58,100.38,25.76
2016-08-15 15:30:35,274.69,280.81,253.75,387.15,385.47,382.73,220.71,221.57,225.01,52.18,51.64,48.39,30.15,33.95,29.69,60.26,61.8,56.77,0.98,0.86,0.89,0.98,0.86,0.89,7305.01,5193.59,8994.14,106.32,100.33,25.85
2016-08-15 15:30:40,269.35,275.19,248.99,387.05,385.42,382.75,220.74,221.51,224.96,51.07,50.49,47.32,29.86,33.6,29.38,59.16,60.65,55.7,0.99,0.87,0.91,0.99,0.87,0.91,7305.16,5193.68,8994.32,107.19,100.41,25.77
2016-08-15 15:30:45,265.79,271.88,245.7,387.33,385.76,383.05,220.93,221.68,225.13,50.62,50.08,46.89,29.77,33.54,29.34,58.72,60.27,55.31,0.97,0.84,0.92,0.97,0.84,0.92,7305.36,5193.8,8994.55,107.39,100.35,25.85
2016-08-15 15:30:50,311.3,317.82,288.81,384.91,382.81,380.04,219.02,220.01,223.9,60.22,59.72,56.24,38.77,42.51,37.78,71.62,73.3,67.75,0.93,0.8,0.89,0.93,0.8,0.89,7305.51,5193.89,8994.73,107.58,100.11,25.79
2016-08-15 15:30:55,319.31,325.83,294.68,384.11,381.94,379.21,218.52,219.34,223.64,58.21,57.59,54.15,37.89,41.75,36.96,69.46,71.13,65.56,0.97,0.86,0.87,0.97,0.86,0.87,7305.66,5194.8994.91,106.88,100.15,25.77
2016-08-15 15:31:00,315.38,322.19,291.2,384.03,381.92,379.18,218.5,219.31,223.61,57.68,57.13,53.67,37.71,41.59,36.88,68.91,70.66,65.12,0.98,0.83,0.91,0.98,0.83,0.91,7305.9,5194.15,8995.19,106.30,100.51,25.76
2016-08-15 15:31:05,314.56,321.2,290.47,383.9,381.78,379.18,218.48,219.22,223.56,57.52,57.01,53.6,37.69,41.51,36.88,68.77,70.52,65.06,0.95,0.83,0.9,0.95,0.83,0.9,7306.06,5194.27,8995.4,107.37,100.13,25.80
2016-08-15 15:31:10,314.79,321.56,290.88,383.85,381.74,379.03,218.41,219.21,223.51,57.6,57.05,53.63,37.69,41.54,36.84,68.84,70.57,65.07,0.97,0.85,0.9,0.97,0.85,0.9,7306.23,5194.38,8995.6,106.45,100.8,25.83
2016-08-15 15:31:15,314.81,321.42,290.89,383.86,381.79,379.08,218.44,219.21,223.55,57.5,56.93,53.59,37.72,41.51,36.84,68.77,70.46,65.03,0.98,0.86,0.9,0.98,0.86,0.9,7306.46,5194.54,8995.87,107.3,100.90,25.85
2016-08-15 15:31:20,315.09,321.63,291.09,384.27,382.1,379.52,218.71,219.4,223.75,56.92,56.23,52.91,37.26,41.12,36.37,68.03,69.66,64.21,0.98,0.87,0.92,0.98,0.87,0.92,7306.62,5194.65,8996.08,107.61,100.35,25.83
2016-08-15 15:31:25,302.61,309.08,278.13,384.63,382.8,380.19,219.09,219.75,224.55,74.54,88.51,46.35,93.40,0.6,35.13,66.32,67.95,62.31,1.01,0.86,0.91,1.01,0.86,0.91,7306.79,5194.77,8996.28,106.44,100.33,25.82
2016-08-15 15:31:30,302.99,309.48,278.14,384.88,382.89,380.4,219.27,219.83,224.07,55.84,54.93,51.46,35.99,40.15,35.16,66.43,68.03,62.32,0.98,0.82,0.89,0.98,0.82,0.89,7307.01,5194.92,8996.54,107.39,100.43,25.80
2016-08-15 15:31:35,303.31,309.86,278.55,384.91,382.93,380.43,219.27,219.85,224.1,56.03,55.14,51.68,36.04,40.18,35.21,66.62,68.23,62.53,0.97,0.84,0.87,0.97,0.84,0.87,7307.17,5195.03,8996.74,106.31,100.52,25.77
2016-08-15 15:31:40,304.59,310.96,279.91,384.72,382.76,380.3,219.16,219.74,224.04,56.2,55.31,51.91,36.03,40.12,35.19,66.76,68.33,62.71,0.98,0.85,0.9,0.98,0.85,0.9,7307.39,5195.18,8997.106.31,100.1,25.84
2016-08-15 15:31:45,305.46,311.93,280.58,383.53,381.61,379.04,218.38,219.13,223.35,56.51,55.64,52.15,35.8,39.94,34.99,66.89,68.5,62.8,0.96,0.82,0.89,0.96,0.82,0.89,7307.55,5195.29,8997.2,106.74,100.17,25.81
2016-08-15 15:31:50,305.62,312.23,281.37,383.94,381.9,379.36,218.61,219.32,223.52,56.4,55.76,52.31,35.67,39.64,34.93,66.74,68.41,62.9,0.94,0.82,0.88,0.94,0.82,0.88,7307.72,5195.4,8997.4,106.37,100.68,25.78
2016-08-15 15:31:55,306.35,313.28,281.41,383.94,381.95,379.36,218.57,219.36,223.55,56.65,56.03,52.56,35.7,39.68,34.97,66.96,68.66,63.13,0.95,0.82,0.86,0.95,0.82,0.86,7307.94,5195.54,8997.66,106.73,100.56,25.75
2016-08-15 15:32:00,312.82,319.7,289.07,383.46,381.39,378.76,218.2,219.04,223.3,60.1,59.99,56.64,38.68,42.08,37.88,71.48,73.28,68.14,0.98,0.85,0.89,0.98,0.85,0.89,7308.1,5195.65,8997.86,106.61,100.86,25.82
2016-08-15 15:32:05,325.37,332.12,301.8,382.38,380.15,377.45,217.38,218.35,222.72,59.04,58.77,55.36,38.13,41.74,37.35,70.28,72.08,66.78,1.0,0.86,0.9,1.0,0.86,0.9,7308.27,5195.77,8998.06,107.37,100.16,25.78
2016-08-15 15:32:10,320.9,327.72,297.64,382.42,380.17,377.54,217.47,218.34,222.73,58.51,58.21,54.84,38.04,41.62,37.25,69.79,71.56,66.29,1.0,0.88,0.91,1.0,0.88,0.91,7308.5,5195.92,8998.34,106.85,100.84,25.83
2016-08-15 15:32:15,319.4,326.44,296.46,382.78,380.58,377.92,217.69,218.57,222.94,58.15,57.89,54.52,38.09,41.67,37.35,69.52,71.33,66.09,0.96,0.86,0.91,0.96,0.86,0.91,7308.67,5196.04,8998.55,106.76,100.72,25.79
2016-08-15 15:32:20,319.33,326.15,296.31,382.97,380.84,378.14,217.8,218.72,223.07,58.02,57.78,54.45,37.97,41.52,37.25,69.34,71.15,65.98,1.01,0.86,0.92,1.01,0.86,0.92,7308.84,5196.15,8998.76,107.75,100.98,25.85
2016-08-15 15:32:25,317.94,324.82,295.39,383.13,380.99,378.32,217.92,218.8,223.15,57.98,57.72,54.42,37.93,41.46,37.19,69.28,71.07,65.92,1.01,0.91,0.92,1.01,0.91,0.92,7309.07,5196.31,8999.03,107.87,100.58,25.79
2016-08-15 15:32:30,318.61,325.76,296.24,382.8,380.65,377.98,217.72,218.59,222.97,60.72,60.61,57.03,38.13,41.84,37.49,71.7,73.65,68.25,1.02,0.89,0.93,1.02,0.89,0.93,7309.24,5196.43,8999.24,106.36,100.33,25.79
2016-08-15 15:32:35,318.12,325.4,294.09,383.11,381.19,378.49,217.92,218.91,223.24,58.4,58.54,42.36,44.40,42.35,86.68,84.70,7.65,17.1,0.04,0.89,0.94,1.04,0.89,0.94,7309.41,5196.54,8999.45,106.92,100.39,25.85
2016-08-15 15:32:40,311.34,318.2,287.56,383.42,381.49,378.86,218.19,219.07,223.37,57.46,56.96,53.47,36.24,40.18,35.59,67.93,69.71,64.23,1.05,0.91,0.95,1.05,0.91,0.95,7309.64,5196.69,8999.72,107.19,100.67,25.76
2016-08-15 15:32:45,308.96,315.88,285.52,383.13,381.26,378.66,218.07,218.91,223.23,56.85,56.38,52.92,36.04,39.94,35.44,67.31,69.09,63.69,1.01,0.87,0.9,1.01,0.87,0.9,7309.81,5196.81,8999.93,107.32,100.20,25.82

2016-08-15 15:32:50,307.94,314.97,284.76,383.21,381.36,378.73,218.13,218.98,223.25,56.6,56.14,52.7,35.95,39.85,35.35,67.05,68.85,63.46,1.03,0.9,0.91,1.03,0.9,0.91,7309.98,5196.92,9000.13,107.88,100.94,25.78
2016-08-15 15:32:55,306.06,313.3,282.81,383.33,381.47,378.83,218.22,219.04,223.29,56.35,55.87,52.36,35.85,39.85,35.3,66.79,68.63,63.15,0.99,0.86,0.91,0.99,0.86,0.91,7310.2,5197.06,9000.39,106.51,100.63,25.76
2016-08-15 15:33:00,305.94,312.96,282.68,384.04,382.12,379.55,218.67,219.4,223.68,56.3,55.74,52.34,36.05,39.96,35.41,66.85,68.59,63.19,1.01,0.88,0.94,1.01,0.88,0.94,7310.36,5197.17,9000.59,107.34,100.87,25.79
2016-08-15 15:33:05,305.49,312.56,282.28,383.86,381.92,379.42,218.6,219.27,223.58,56.19,55.6,52.19,35.98,39.92,35.33,66.72,68.45,63.02,1.01,0.86,0.92,1.01,0.86,0.92,7310.53,5197.28,9000.79,107.64,100.6,25.76
2016-08-15 15:33:10,317.78,324.86,295.63,383.41,381.25,378.66,218.1,218.94,223.34,58.03,57.85,54.53,37.89,41.38,37.23,69.31,71.12,66.03,0.97,0.87,0.9,0.97,0.87,0.9,7310.75,5197.43,9001.06,107.70,100.85,25.82
2016-08-15 15:33:15,309.44,316.3,287.67,383.49,381.38,378.82,218.26,219.22,223.33,56.17,55.87,52.68,36.9,40.37,36.2,67.21,68.94,63.92,0.98,0.85,0.91,0.98,0.85,0.91,7310.91,5197.55,9001.25,106.28,100.39,25.82
2016-08-15 15:33:20,307.35,314.14,285.61,383.47,381.38,378.8,218.29,219.22,223.28,55.83,55.48,52.33,36.89,40.35,36.11,66.91,68.6,63.58,1.02,0.93,0.96,1.02,0.93,0.96,7311.08,5197.66,9001.46,107.14,100.63,25.75
2016-08-15 15:33:25,286.13,292.78,268.04,384.93,382.9,380.43,219.41,219.85,223.95,52.03,51.87,49.14,35.14,38.12,34.47,62.78,64.37,60.03,0.97,0.86,0.9,0.97,0.86,0.9,7311.3,5197.81,9001.72,106.99,100.53,25.83
2016-08-15 15:33:30,277.08,283.79,257.61,385.44,383.59,381.11,219.83,220.25,224.22,50.92,50.48,47.53,33.33,36.79,32.75,60.85,62.47,57.72,1.0,0.84,0.93,1.0,0.84,0.93,7311.45,5197.92,9001.91,106.74,100.93,25.82
2016-08-15 15:33:35,277.76,284.52,258.27,385.49,383.66,381.24,219.87,220.28,224.29,51.23,50.81,47.83,33.33,36.8,32.77,61.11,62.73,57.98,0.96,0.85,0.9,0.96,0.85,0.9,7311.6,5198.02,9002.1,106.74,100.66,25.83
2016-08-15 15:33:40,278.04,285.25,258.88,385.26,383.56,381.2,219.7,220.2,224.21,51.22,50.88,47.91,33.28,36.74,32.77,61.09,62.76,58.04,0.95,0.84,0.88,0.95,0.84,0.88,7311.8,5198.16,9002.34,107.82,100.65,25.78
2016-08-15 15:33:45,278.3,285.29,259.18,385.36,383.69,381.13,219.76,220.26,224.29,51.38,51.11,48.11,33.31,36.78,32.85,61.24,62.97,58.26,0.94,0.83,0.89,0.94,0.83,0.89,7311.95,5198.26,9002.52,106.61,100.81,25.77
2016-08-15 15:33:50,280.01,287.08,260.78,385.06,383.31,380.79,219.55,220.07,224.1,51.75,51.5,48.46,33.3,36.77,32.85,61.54,63.28,58.54,0.96,0.86,0.89,0.96,0.86,0.89,7312.1,5198.36,9002.7,106.98,100.90,25.84
2016-08-15 15:33:55,282.14,288.99,262.62,385.31,383.58,381.03,219.68,220.22,224.27,52.15,51.8,48.81,33.49,36.97,32.96,61.98,63.64,58.9,0.99,0.83,0.91,0.99,0.83,0.91,7312.3,5198.5,9002.94,107.88,100.48,25.82
2016-08-15 15:34:00,282.8,289.77,263.19,384.92,383.2,380.63,219.52,220.06,223.91,52.41,52.07,48.99,33.32,36.89,32.83,62.11,63.81,58.97,0.96,0.83,0.88,0.96,0.83,0.88,7312.46,5198.6,9003.13,107.57,100.24,25.76
2016-08-15 15:34:05,294.94,302.25,275.6,384.11,382.04,379.29,218.68,219.46,223.46,55.4,55.53,52.51,36.22,39.31,35.67,66.19,68.03,63.48,0.94,0.82,0.86,0.94,0.82,0.86,7312.61,5198.71,9003.31,106.7,100.57,25.78
2016-08-15 15:34:10,295.03,302.48,276.33,384.61,382.66,379.91,219.09,219.78,223.71,54.1,54.11,51.06,35.37,38.63,34.85,64.64,66.48,61.82,0.98,0.86,0.91,0.98,0.86,0.91,7312.82,5198.85,9003.57,106.6,100.47,25.81
2016-08-15 15:34:15,293.6,300.87,274.98,384.63,382.7,380.21,219.14,219.8,223.74,53.75,53.68,50.69,35.39,38.61,34.84,64.35,66.12,61.51,0.97,0.88,0.89,0.97,0.88,0.89,7312.98,5198.96,9003.76,107.10,100.46,25.78
2016-08-15 15:34:20,293.51,300.82,274.85,385.1,383.12,380.44,219.43,220.05,223.97,53.81,53.74,50.71,35.41,38.66,34.87,64.41,66.2,61.54,0.95,0.85,0.92,0.95,0.85,0.92,7313.14,5199.06,9003.95,107.41,100.79,25.83
2016-08-15 15:34:25,280.95,288.23,261.35,385.25,383.53,380.86,219.71,220.26,224.03,51.93,51.58,48.44,33.37,37.02,32.89,61.73,63.48,58.55,0.98,0.85,0.93,0.98,0.85,0.93,7313.35,5199.21,9004.21,106.51,100.84,25.85
2016-08-15 15:34:30,301.77,309.04,280.46,384.19,382.33,379.55,218.78,219.62,223.55,55.78,55.51,52.13,34.83,38.6,34.34,65.76,67.61,62.43,0.97,0.86,0.91,0.97,0.86,0.91,7313.5,5199.31,9004.4,106.18,100.59,25.79
2016-08-15 15:34:35,296.58,303.81,275.75,384.44,382.64,379.91,219.02,219.78,223.69,54.45,54.18,50.84,34.39,38.14,33.94,64.4,66.26,61.13,1.0,0.85,0.93,1.0,0.85,0.93,7313.66,5199.42,9004.59,107.8,100.83,25.78
2016-08-15 15:34:40,289.68,296.95,269.23,384.72,382.89,380.26,219.28,219.91,223.79,53.51,53.17,49.93,34.22,37.91,33.72,63.52,65.3,60.25,1.01,0.9,0.94,1.01,0.9,0.94,7313.88,5199.56,9004.84,106.86,100.87,25.81
2016-08-15 15:34:45,287.95,295.2,267.54,384.71,382.82,380.25,219.31,219.87,223.76,53.05,52.7,49.46,34.05,37.78,33.56,63.04,64.84,59.77,1.04,0.94,0.94,1.04,0.94,0.94,7314.03,5199.67,9005.03,106.1,100.76,25.80
2016-08-15 15:34:50,287.17,294.61,266.91,384.61,382.83,380.1,219.22,219.85,223.72,53.52,67.49,41.34,03,37.77,33.57,62.98,64.81,59.74,1.02,0.9,0.92,1.02,0.9,0.92,7314.19,5199.77,9005.22,107.39,100.50,25.84
2016-08-15 15:34:55,287.17,294.66,267.38,384.6,382.81,380.14,219.24,219.85,223.71,52.98,52.66,49.41,34.01,37.73,33.56,62.96,64.78,59.73,1.02,0.91,0.91,1.02,0.91,0.91,7314.4,5199.91,9005.47,107.14,100.43,25.84
2016-08-15 15:35:00,309.67,317.18,290.23,383.4,381.21,378.38,218.15,219.22,223.03,55.26,55.32,52.18,36.43,39.69,35.89,66.19,68.08,63.33,0.99,0.89,0.91,0.99,0.89,0.91,7314.55,5200.02,9005.66,107.21,100.44,25.76
2016-08-15 15:35:05,299.39,306.77,279.96,384.21,382.15,379.45,218.83,219.49,223.48,54.5,54.44,51.33,36.39,31.35,44.65,32.67,15.62,38.0,0.95,0.82,0.88,0.95,0.82,0.88,7314.71,5200.12,9005.85,107.89,100.30,25.78
2016-08-15 15:35:10,297.15,304.69,278.12,384.33,382.29,379.59,218.92,219.55,223.56,54.22,54.18,51.1,35.95,39.24,35.41,65.05,66.9,62.17,0.95,0.84,0.89,0.95,0.84,0.89,7314.93,5200.27,9006.11,107.97,100.95,25.78
2016-08-15 15:35:15,296.29,303.9,277.09,384.45,382.41,379.67,219.01,219.63,223.58,53.98,53.89,50.79,35.93,39.29,35.37,64.85,66.69,61.89,0.99,0.86,0.9,0.99,0.86,0.9,7315.08,5200.38,9006.31,106.68,100.5,25.78
2016-08-15 15:35:20,294.67,302.06,275.59,385.23,383.42,380.79,219.71,220.15,224.04,51.99,51.62,48.5,34.23,37.85,33.71,62.25,64.01,59.06,0.96,0.86,0.92,0.96,0.86,0.92,7315.24,5200.49,9006.5,106.39,100.96,25.82
2016-08-15 15:35:25,280.67,288.27,260.92,386.16,384.37,381.69,220.29,220.69,224.51,51.54,51.12,47.95,34.16,37.87,33.64,61.83,63.62,58.58,0.98,0.85,0.92,0.98,0.85,0.92,7315.45,5200.64,9006.76,107.65,100.86,25.82

2016-08-15 15:35:30,276.57,284.23,257.45,385.86,384.14,381.48,220.16,220.55,224.35,50.31,49.95,46.86,33.16,36.79,32.71,60.25,62.03,57.15,1.01,0.89,0.93,1.01,0.89,0.93,7315.6,5200.74,9006.94,106.82,100.27,25.78
2016-08-15 15:35:35,273.03,280.72,254.36,386.38,384.7,382.14,220.56,220.84,224.67,50.15,49.75,46.73,33.32,36.92,32.86,60.21,61.96,57.13,1.0,0.9,0.94,1.0,0.9,0.94,7315.75,5200.85,9007.12,107.57,100.79,25.81
2016-08-15 15:35:40,272.91,280.5,253.9,386.54,384.82,382.26,220.65,220.93,224.72,50.16,49.72,46.65,33.32,36.99,32.85,60.22,61.97,57.06,1.02,0.89,0.94,1.02,0.89,0.94,7315.95,5200.98,9007.36,106.99,100.5,25.75
2016-08-15 15:35:45,273.49,280.85,254.45,386.58,384.85,382.32,220.67,220.94,224.76,50.36,49.95,46.95,33.47,37.02,32.96,60.47,62.18,57.37,1.0,0.87,0.91,1.0,0.87,0.91,7316.1,5201.09,9007.54,107.92,100.73,25.76
2016-08-15 15:35:50,275.11,282.49,256.09,386.66,384.91,382.38,220.6,220.95,224.95,50.83,50.44,47.41,33.52,37.08,33.03,60.89,62.6,57.78,0.99,0.86,0.93,0.99,0.86,0.93,7316.24,5201.19,9007.72,107.11,100.91,25.85
2016-08-15 15:35:55,338.57,345.88,314.59,382.22,379.82,377.14,217.32,217.96,222.73,60.25,59.86,56.6,42.23,45.83,41.31,73.58,75.39,70.07,0.97,0.87,0.87,0.97,0.87,0.87,7316.44,5201.33,9007.96,107.53,100.14,25.81
2016-08-15 15:36:00,329.77,337.32,306.08,382.72,380.44,377.76,217.74,218.3,222.97,58.77,58.26,55.41,08.44,83.40,23.71,7.73,51.68,14.0,0.97,0.83,0.9,0.97,0.83,0.9,7316.6,5201.44,9008.17,106.38,100.45,25.80
2016-08-15 15:36:05,329.7,336.77,305.37,382.86,380.48,377.87,217.84,218.36,222.98,58.86,58.24,54.98,41.14,44.91,40.19,71.82,73.55,68.1,0.96,0.84,0.87,0.96,0.84,0.87,7316.78,5201.57,9008.38,107.32,100.98,25.83
2016-08-15 15:36:10,330.51,337.46,306.28,382.57,380.25,377.62,217.64,218.23,222.86,59.01,58.41,55.18,41.13,44.85,40.17,71.93,73.64,68.26,0.99,0.9,0.88,0.99,0.9,0.88,7317.01,5201.74,9008.66,107.65,100.67,25.78
2016-08-15 15:36:15,317.88,325.09,293.11,383.57,381.5,378.9,218.42,218.9,223.44,57.18,56.33,52.92,39.24,43.41,38.41,69.34,71.11,65.39,1.02,0.88,0.93,1.02,0.88,0.93,7317.18,5201.86,9008.88,107.40,100.84,25.80
2016-08-15 15:36:20,317.77,324.91,292.71,383.52,381.44,378.81,218.38,218.88,223.39,57.24,56.35,52.97,39.32,43.49,38.45,69.45,71.18,65.46,0.95,0.84,0.87,0.95,0.84,0.87,7317.35,5201.98,9009.09,107.87,100.58,25.76
2016-08-15 15:36:25,323.57,330.7,297.81,383.59,381.39,378.82,218.39,218.84,223.44,58.13,57.16,53.75,40.18,44.39,39.23,70.66,72.37,66.54,0.96,0.83,0.88,0.96,0.83,0.88,7317.57,5202.15,9009.36,107.50,100.27,25.82
2016-08-15 15:36:30,337.13,344.09,310.1,382.77,380.48,377.83,217.7,218.39,223.01,60.99,60.15,56.55,40.7,44.98,39.76,73.33,75.1,69.13,0.97,0.84,0.92,0.97,0.84,0.92,7317.74,5202.27,9009.57,107.62,100.51,25.81
2016-08-15 15:36:35,332.42,339.48,305.69,382.9,380.68,378.21,218.4,218.5,223.05,59.81,58.9,55.34,40.22,44.5,39.28,72.07,73.82,67.87,0.97,0.84,0.9,0.97,0.84,0.9,7317.91,5202.39,9009.78,106.62,100.56,25.75
2016-08-15 15:36:40,328.64,335.65,302.3,382.72,380.52,377.84,217.76,218.41,222.94,59.34,58.43,54.9,40.44,27.39,08.71,56.73,31.67,39.1,0.01,0.89,0.88,1.01,0.89,0.88,7318.15,5202.56,9010.07,106.36,100.78,25.75
2016-08-15 15:36:45,327.77,334.79,301.36,382.79,380.53,377.9,217.82,218.42,222.93,59.14,58.13,54.66,40.02,44.27,39.03,71.41,73.07,67.16,1.0,0.88,0.92,1.0,0.88,0.92,7318.32,5202.68,9010.28,107.62,100.36,25.79
2016-08-15 15:36:50,348.26,355.2,322.5,382.26,379.76,377.06,217.29,218.01,222.65,61.09,60.49,57.1,42.18,45.99,41.15,74.24,75.99,70.38,1.01,0.89,0.94,1.01,0.89,0.94,7318.49,5202.89,9010.5,107.38,100.94,25.75
2016-08-15 15:36:55,337.88,344.91,312.38,383.01,380.6,377.9,217.81,218.44,223.09,60.41,59.73,56.35,42.03,45.92,41.73,6.75,34.69,69.1,0.04,0.9,0.9,1.04,0.9,0.9,7318.73,5202.98,9010.79,107.19,100.35,25.78
2016-08-15 15:37:00,336.84,343.8,311.59,383.80,380.59,377.92,217.81,218.44,223.1,60.06,59.38,56.07,41.86,45.67,40.83,73.21,74.91,69.36,1.0,0.86,0.88,1.0,0.86,0.88,7318.9,5203.1,9011.01,107.49,100.51,25.82
2016-08-15 15:37:05,336.52,343.6,311.32,382.79,380.39,377.73,217.68,218.32,223.60,09.59,44.56,11.41,89.45,72.40,88.73,25.74,99.69,42.1,0.02,0.89,0.9,1.02,0.89,0.9,7319.08,5203.23,9011.22,106.46,100.69,25.79
2016-08-15 15:37:10,324.27,331.32,298.54,383.91,381.71,379.13,218.56,219.03,223.62,58.37,57.42,54.02,40.19,44.37,39.23,70.87,72.57,66.76,1.01,0.87,0.91,1.01,0.87,0.91,7319.31,5203.4,9011.51,107.5,100.66,25.85
2016-08-15 15:37:15,324.03,331.19,298.24,383.84,381.67,379.07,218.5,219.01,223.59,58.34,57.37,53.94,40.21,44.44,39.25,70.85,72.57,66.71,0.99,0.86,0.91,0.99,0.86,0.91,7319.48,5203.53,9011.73,106.15,100.34,25.77
2016-08-15 15:37:20,324.55,331.39,298.37,384.27,381.99,379.51,218.8,219.2,223.79,58.4,57.33,53.97,40.33,44.5,39.27,70.97,72.57,66.75,0.93,0.82,0.86,0.93,0.82,0.86,7319.65,5203.65,9011.93,107.11,100.29,25.76
2016-08-15 15:37:25,323,329.95,297.29,383.99,381.79,379.26,218.64,219.07,223.66,58.09,57.09,53.72,40.17,44.34,39.18,70.62,72.28,66.49,1.01,0.87,0.9,1.01,0.87,0.9,7319.88,5203.81,9012.22,106.58,100.15,25.75
2016-08-15 15:37:30,322.95,329.91,297.16,384.16,381.92,379.43,218.77,219.14,223.75,58.05,57.02,53.64,40.19,44.4,39.22,70.6,72.27,66.45,1.01,0.88,0.91,1.01,0.88,0.91,7320.05,5203.94,9012.42,107.60,100.66,25.85
2016-08-15 15:37:35,322.44,329.42,296.78,384.16,382.37,379.44,218.75,219.19,223.76,58.02,57.53,63.40,17.44,39.39,2.70,57.72,25.66,43.1,0.02,0.88,0.91,1.02,0.88,0.91,7320.22,5204.06,9012.63,107.19,100.91,25.76
2016-08-15 15:37:40,321.54,328.78,296.38,384.22,382.08,379.47,218.78,219.22,223.78,57.79,56.81,53.4,40.12,44.36,39.19,70.35,72.08,66.24,0.99,0.85,0.89,0.99,0.85,0.89,7320.44,5204.23,9012.91,106.38,100.65,25.78
2016-08-15 15:37:45,333.73,340.75,309.1,383.47,381.01,378.4,218.17,218.64,223.33,58.89,58.19,54.96,41.94,45.71,40.9,72.3,74.68,51.1,0.02,0.89,0.94,1.02,0.89,0.94,7320.61,5204.35,9013.12,106.73,100.54,25.76
2016-08-15 15:37:50,329.3,336.4,304.74,383.53,381.13,378.58,218.29,218.69,223.36,58.28,57.52,54.32,41.81,45.6,40.77,71.72,73.4,67.91,0.99,0.87,0.87,0.99,0.87,0.87,7320.79,5204.48,9013.34,107.9,100.65,25.85
2016-08-15 15:37:55,327.39,334.74,303.03,382.68,380.34,377.74,217.78,218.24,222.9,57.97,57.28,54.02,41.51,45.34,40.55,71.3,73.05,67.55,0.99,0.84,0.91,0.99,0.84,0.91,7321.01,5204.65,9013.62,107.65,100.25,25.78
2016-08-15 15:38:00,327.03,334.22,302.77,383.08,380.74,378.14,218.02,218.46,223.12,57.99,57.24,54.04,41.62,45.42,40.58,71.38,73.07,67.58,0.96,0.84,0.9,0.96,0.84,0.9,7321.18,5204.78,9013.83,107.57,100.91,25.81
2016-08-15 15:38:05,314.91,321.98,289.82,384.381,86,379.36,218.78,219.07,223.62,56.15,55.07,51.81,39.82,43.97,38.84,68.84,70.47,64.75,0.98,0.85,0.88,0.98,0.85,0.88,7321.35,5204.9,9014.05,107.3,100.8,25.83

2016-08-15 15:38:10,314.65,321.87,289.59,383.61,381.44,378.94,218.55,218.83,223.38,56.16,55.12,51.82,39.68,43.86,38.72,68.77,70.44,64.69,1.02,0.9,0.92,1.02,0.9,0.92,7321.57,5205.07,9014.32,107.90,100.16,25.79
2016-08-15 15:38:15,314.29,321.68,289.31,383.29,381.12,378.61,218.35,218.66,223.19,56.07,55.07,51.72,39.54,43.74,38.64,68.61,70.32,64.56,1.01,0.9,0.92,1.01,0.9,0.92,7321.73,5205.19,9014.53,106.89,100.63,25.78
2016-08-15 15:38:20,314.28,321.52,289.3,383.21,381.02,378.53,218.31,218.61,223.14,56.07,55.01,51.72,39.55,43.72,38.57,68.61,70.27,64.52,0.97,0.86,0.89,0.97,0.86,0.89,7321.9,5205.31,9014.73,106.4,100.96,25.78
2016-08-15 15:38:25,314.38,321.49,289.12,383.54,381.34,378.84,218.5,218.81,223.3,56.1,55.51,71.39,65.43,85.38,66.68,69.70,34.64,56.1,0.87,0.93,1,0.87,0.93,7322.11,5205.47,9015,107.9,100.15,25.76
2016-08-15 15:38:30,327.23,334.49,300.74,382.69,380.44,377.85,217.8,218.34,222.89,58.43,57.56,54.39,89.44,21.39,06.70,75.72,58.66,64.0,97,0.84,0.86,0.97,0.84,0.86,7322.28,5205.6,9015.2,107.39,100.9,25.77
2016-08-15 15:38:35,321.22,328.84,295.56,383.16,381.03,378.44,218.19,218.65,223.14,56.87,55.95,52.46,39.29,43.59,38.48,69.12,70.92,65.06,1,0.88,0.92,1,0.88,0.92,7322.45,5205.72,9015.41,106.98,100.10,25.83
2016-08-15 15:38:40,325.93,333.18,301.83,382.59,380.17,377.56,217.69,218.21,222.76,57.93,57.3,54.03,40.97,44.75,40.02,70.95,72.7,67.23,0.97,0.86,0.91,0.97,0.86,0.91,7322.67,5205.88,9015.69,107.81,100.25,25.80
2016-08-15 15:38:45,321.93,329.17,297.75,382.57,380.23,377.61,217.75,218.23,222.73,57.06,56.33,53.11,40.71,44.54,39.75,70.09,71.81,66.34,0.97,0.85,0.91,0.97,0.85,0.91,7322.84,5206.01,9015.9,107.38,100.37,25.78
2016-08-15 15:38:50,321.72,329.26,297.82,382.99,380.64,378.03,218,218.44,222.99,57.38,56.68,53.4,40.75,44.63,39.81,70.38,72.14,66.6,0.99,0.87,0.89,0.99,0.87,0.89,7323.01,5206.13,9016.11,107.11,100.71,25.85
2016-08-15 15:38:55,328.93,336.48,304.17,382.17,379.79,377.11,217.37,218.01,222.55,58.8,58.2,54.75,40.68,44.65,39.81,71.5,73.36,67.69,1.03,0.9,0.89,1.03,0.9,0.89,7323.23,5206.3,9016.39,107.71,100.36,25.76
2016-08-15 15:39:00,317.89,325.37,292.51,383.05,380.91,378.22,218.06,218.62,223.04,57.41,56.49,52.99,39.43,31.38,14.69,4.71,18.65,29.1,0.1,0.89,0.93,1.01,0.89,0.93,7323.4,5206.42,9016.6,107.46,100.67,25.76
2016-08-15 15:39:05,318.08,325.5,292.58,383.47,381.32,378.68,218.34,218.83,223.3,57.38,56.46,52.96,39.12,43.43,38.29,69.44,71.24,65.35,1.01,0.85,0.9,1.01,0.85,0.9,7323.57,5206.54,9016.81,106.95,100.47,25.77
2016-08-15 15:39:10,317.82,325.21,292.42,383.5,381.34,378.71,218.35,218.85,223.3,57.32,56.39,52.9,39.12,43.43,38.28,69.4,71.17,65.3,1.01,0.88,0.89,1.01,0.88,0.89,7323.79,5206.7,9017.08,106.59,100.84,25.82
2016-08-15 15:39:15,317.77,325.34,292.51,383.64,381.5,378.83,218.43,218.94,223.38,57.4,56.5,52.96,39.07,43.4,38.26,69.44,71.25,65.33,1.02,0.89,0.92,1.02,0.89,0.92,7323.96,5206.82,9017.29,107.29,100.31,25.80
2016-08-15 15:39:20,325.07,332.63,298.97,383,380.84,378.12,217.97,218.56,223.06,58.19,57.32,53.71,39.74,44.12,38.93,70.46,72.34,66.33,1.03,0.89,0.92,1.03,0.89,0.92,7324.12,5206.94,9017.49,106.52,100.42,25.77
2016-08-15 15:39:25,323.87,331.37,297.86,382.93,380.73,378.05,217.93,218.51,223.01,58.32,57.43,53.85,39.75,44.1,38.9,70.58,72.41,66.43,0.99,0.87,0.89,0.99,0.87,0.89,7324.35,5207.11,9017.77,107.94,100.69,25.76
2016-08-15 15:39:30,324.35,331.98,298.28,383.07,380.84,378.15,218,218.58,223.07,59.54,58.77,55.24,40.92,45.06,40.01,72.25,74.06,68.21,0.99,0.87,0.85,0.99,0.87,0.85,7324.52,5207.23,9017.98,107.2,100.42,25.78
2016-08-15 15:39:35,338.98,346.41,313.78,382.35,379.9,377.15,217.39,218.06,222.69,60.13,59.55,56.11,41.78,45.68,40.82,73.22,75.05,69.39,0.97,0.87,0.88,0.97,0.87,0.88,7324.69,5207.35,9018.19,106.91,100.86,25.79
2016-08-15 15:39:40,335.09,342.58,309.99,381.89,379.53,376.75,217.13,217.84,222.45,59.77,59.21,55.76,41.49,45.43,40.57,72.76,74.63,68.96,0.97,0.86,0.89,0.97,0.86,0.89,7324.92,5207.52,9018.48,106.43,100.73,25.78
2016-08-15 15:39:45,334.26,341.52,309.11,382.07,379.68,376.98,217.27,217.91,222.56,59.67,59.04,55.6,41.51,45.46,40.57,72.69,74.52,68.83,0.98,0.89,0.89,0.98,0.89,0.89,7325.1,5207.65,9018.7,107.6,100.5,25.78
2016-08-15 15:39:50,334.93,342.42,309.57,382.65,380.42,377.68,217.72,218.33,222.85,58.62,57.8,54.27,40.35,44.59,39.48,71.16,73.67,11,0.97,0.83,0.86,0.97,0.83,0.86,7325.27,5207.78,9018.91,106.62,100.48,25.82
2016-08-15 15:39:55,322.65,330.23,296.6,383.16,380.97,378.28,218.1,218.63,223.13,58.05,57.12,53.53,39.77,44.16,38.91,70.37,72.2,66.18,0.91,0.8,0.86,0.91,0.8,0.86,7325.5,5207.95,9019.2,107.89,100.90,25.77
2016-08-15 15:40:00,284.58,292.04,263.88,385.61,383.77,381.03,219.78,220.35,224.31,52.55,52.21,48.88,33.92,37.73,33.47,62.55,64.42,59.25,0.99,0.86,0.91,0.99,0.86,0.91,7325.67,5208.07,9019.41,107.6,100.88,25.78
2016-08-15 15:40:05,285.05,292.6,264.43,385.37,383.53,380.79,219.64,220.21,224.19,52.62,52.24,48.96,34.02,37.79,33.5,62.66,64.47,59.33,0.95,0.84,0.88,0.95,0.84,0.88,7325.83,5208.18,9019.6,107.49,100.37,25.85
2016-08-15 15:40:10,284.49,292.11,263.96,385.49,383.64,380.96,219.74,220.26,224.27,52.46,52.08,48.81,34.37,78.33,5.62,51.64,34.59,2,0.95,0.83,0.9,0.95,0.83,0.9,7326.04,5208.32,9019.85,106.21,100.74,25.81
2016-08-15 15:40:15,284.84,292.61,264.21,385.32,383.48,380.77,219.62,220.18,224.17,52.57,52.19,48.85,33.99,37.85,33.51,62.61,64.47,59.24,0.97,0.85,0.89,0.97,0.85,0.89,7326.19,5208.43,9020.04,106.24,100.88,25.78
2016-08-15 15:40:20,285.1,292.82,264.44,385.81,383.94,381.26,219.93,220.43,224.43,52.67,52.24,48.95,34.1,37.93,33.57,62.74,64.56,59.36,0.94,0.83,0.9,0.94,0.83,0.9,7326.34,5208.53,9020.22,106.81,100.75,25.84
2016-08-15 15:40:25,306.71,314.68,286.22,384.04,381.92,379.03,218.52,219.37,223.45,56.17,56.21,52.82,36.56,40.07,36.06,67.02,69.03,63.95,0.98,0.86,0.94,0.98,0.86,0.94,7326.55,5208.67,9020.47,106.98,100.47,25.80
2016-08-15 15:40:30,307.73,315.62,287.3,383.85,381.69,378.72,218.33,219.26,223.34,55.86,55.9,52.55,36.14,39.63,35.62,66.53,68.53,63.48,0.98,0.86,0.92,0.98,0.86,0.92,7326.71,5208.78,9020.66,106.89,100.85,25.82
2016-08-15 15:40:35,299.24,307.15,279.36,384.38,382.27,379.4,218.81,219.56,223.58,54.37,54.34,51.09,35.83,39.28,35.3,65.12,67.06,62.1,0.97,0.82,0.89,0.97,0.82,0.89,7326.88,5208.89,9020.87,106.21,100.86,25.84
2016-08-15 15:40:40,293.79,301.41,274.06,384.77,382.68,379.94,219.16,219.75,223.81,53.54,53.39,50.24,35.76,39.19,35.19,64.39,66.23,61.34,0.97,0.84,0.9,0.97,0.84,0.9,7327.09,5209.04,9021.13,106.85,100.49,25.82
2016-08-15 15:40:45,272.35,279.81,252.73,385.35,383.57,380.98,219.83,220.22,224.11,49.81,49.36,46.24,32.79,36.49,32.32,59.63,61.39,56.42,0.99,0.88,0.98,0.99,0.88,0.98,7327.25,5209.15,9021.32,106.61,100.93,25.75

2016-08-15 15:40:50,270.06,277.65,250.65,385.25,383.47,380.87,219.78,220.17,224.02,49.45,48.99,45.87,32.73,36.44,32.25,59.3,61.05,56.07,0.95,0.83,0.9,0.95,0.83,0.9,7327.4,5209.25,9021.51,106.49,100.17,25.77
2016-08-15 15:40:55,269.9,277.35,250.37,385.27,383.49,380.9,219.81,220.18,224.03,49.48,49.45,89.32,74.36,45.32,25.59,33.61,07.56,09.09,0.88,0.94,0.99,0.88,0.94,7327.59,5209.39,9021.74,106.50,100.81,25.80
2016-08-15 15:41:00,271.19,278.48,251.44,385.26,383.42,380.85,219.78,220.16,224.49,98.49,45.46,36.32,8.36,48.32,25.59,78.61,45.56,48.09,6.085,0.93,0.96,0.85,0.93,7327.74,5209.49,9021.92,106.14,100.32,25.76
2016-08-15 15:41:05,273.28,280.42,252.94,385.39,383.47,380.86,219.81,220.23,224.50,46.49,89.46,74.32,91.36,66.32,3.60,24.61,91.56,81.09,0.89,0.92,0.99,0.89,0.92,7327.88,5209.59,9022.09,106.99,100.9,25.77
2016-08-15 15:41:10,275.38,282.69,255.03,384.73,382.89,380.2,219.35,219.92,223.68,50.76,50.3,47.07,32.74,36.53,32.23,60.4,62.17,57.05,1.02,0.9,0.93,1.02,0.9,0.93,7328.08,5209.72,9022.33,107.79,100.63,25.77
2016-08-15 15:41:15,275.81,283.07,255.6,384.91,383.08,380.41,219.46,220.02,223.82,50.95,50.52,47.33,32.86,36.61,32.36,60.63,62.39,57.34,0.99,0.88,0.96,0.99,0.88,0.96,7328.23,5209.82,9022.51,107.26,100.89,25.81
2016-08-15 15:41:20,298.72,306.1,279.7,383.86,381.72,379.02,218.59,219.27,223.24,53.11,53.08,50.07,35.13,38.33,34.57,63.67,65.47,60.84,1,0.87,0.94,1,0.87,0.94,7328.38,5209.93,9022.69,107.39,100.77,25.85
2016-08-15 15:41:25,287.02,294.4,268.26,384.29,382.23,379.56,218.94,219.53,223.49,52.33,52.23,49.22,34.79,38.06,34.24,62.84,64.63,59.95,1.02,0.92,0.92,1.02,0.92,0.92,7328.58,5210.07,9022.94,107.41,100.75,25.82
2016-08-15 15:41:30,287.4,294.49,268.27,384.3,382.19,379.53,218.93,219.53,223.46,52.56,52.42,49.37,34.7,38.02,34.13,62.98,64.76,60.02,0.96,0.87,0.93,0.96,0.87,0.93,7328.73,5210.18,9023.13,107.88,100.19,25.77
2016-08-15 15:41:35,288.92,296.08,269.74,384.17,382.1,379.44,218.86,219.49,223.39,52.41,52.2,49.11,34.32,37.74,33.75,62.64,64.41,59.59,1.01,0.9,0.93,1.01,0.9,0.93,7328.89,5210.28,9023.32,106.52,100.26,25.79
2016-08-15 15:41:40,277.55,284.44,256.98,384.72,382.77,380.17,219.32,219.88,223.66,51.2,50.7,47.52,32.92,36.63,32.34,60.87,62.54,57.48,1.03,0.88,0.94,1.03,0.88,0.94,7329.09,5210.42,9023.57,107.42,100.84,25.83
2016-08-15 15:41:45,277.87,284.74,257.42,384.49,382.53,379.94,219.18,219.74,223.54,51.26,50.77,47.62,32.93,36.62,32.35,60.93,62.6,57.57,0.99,0.88,0.92,0.99,0.88,0.92,7329.24,5210.52,9023.75,107.27,100.41,25.76
2016-08-15 15:41:50,277.96,285.08,257.45,384.79,382.85,380.24,219.37,219.91,223.71,51.3,50.83,47.66,32.96,36.65,32.39,60.98,62.66,57.63,1,0.9,0.92,1,0.9,0.92,7329.39,5210.62,9023.93,108.77,100.63,25.79
2016-08-15 15:41:55,277.61,284.54,257.16,384.23,382.38,379.72,219.11,219.68,223.3,51.24,50.72,47.54,32.78,36.54,32.2,60.83,62.51,57.42,1.03,0.91,0.97,1.03,0.91,0.97,7329.59,5210.76,9024.17,107.91,100.83,25.80
2016-08-15 15:42:00,278.46,285.33,257.99,384.31,382.41,379.8,219.15,219.7,223.35,51.49,50.96,47.75,32.86,36.64,32.29,61.08,62.77,57.64,1,0.88,0.93,1,0.88,0.93,7329.74,5210.86,9024.35,108.7,100.1,25.77
2016-08-15 15:42:05,279.32,285.94,258.61,384.43,382.52,379.89,219.19,219.79,223.4,51.62,51.06,47.91,32.92,36.64,32.29,61.23,62.85,57.77,0.97,0.87,0.92,0.97,0.87,0.92,7329.89,5210.96,9024.53,108.30,100.81,25.75
2016-08-15 15:42:10,280.17,286.83,259.48,384.46,382.54,379.94,219.22,219.77,223.45,54.19,53.98,50.87,35.29,38.63,34.62,64.67,66.37,61.53,0.99,0.86,0.89,0.99,0.86,0.89,7330.09,5211.1,9024.77,108.32,100.79,25.77
2016-08-15 15:42:15,293.6,300.44,274.22,383.7,381.56,378.88,218.56,219.25,223.03,53.53,53.37,50.36,34.97,38.23,34.32,63.94,65.65,60.94,0.95,0.85,0.86,0.95,0.85,0.86,7330.24,5211.2,9024.96,107.75,100.24,25.83
2016-08-15 15:42:20,296.45,303.38,276.45,383.38,381.23,378.49,218.33,219.03,222.87,54.01,53.79,50.72,35.52,38.89,34.82,64.65,66.38,61.52,0.99,0.86,0.91,0.99,0.86,0.91,7330.4,5211.31,9025.15,107.95,100.41,25.84
2016-08-15 15:42:25,309.39,316.36,288.17,382.67,380.38,377.58,217.72,218.62,222.48,56.84,56.71,53.42,36.14,39.6,35.45,67.36,69.16,64.11,0.98,0.87,0.9,0.98,0.87,0.9,7330.61,5211.45,9025.41,108.43,100.38,25.79
2016-08-15 15:42:30,302.18,309.15,281.23,382.92,380.76,378.01,217.97,218.8,222.65,53.77,53.28,50.01,33.9,37.68,33.27,63.57,65.26,60.07,0.99,0.86,0.92,0.99,0.86,0.92,7330.78,5211.56,9025.6,107.94,100.75,25.82
2016-08-15 15:42:35,288.56,295.33,267.26,384.05,382.11,379.44,218.87,219.52,223.28,53.14,52.61,49.41,33.82,37.57,33.17,62.99,64.65,59.51,0.97,0.86,0.89,0.97,0.86,0.89,7330.94,5211.67,9025.8,108.11,100.6,25.76
2016-08-15 15:42:40,285.78,292.56,264.71,383.64,381.7,379.06,218.65,219.29,223.03,52.69,52.18,48.97,33.59,37.33,32.97,62.49,64.16,59.04,0.97,0.85,0.91,0.97,0.85,0.91,7331.15,5211.81,9026.05,107.96,100.23,25.82
2016-08-15 15:42:45,285.56,292.67,264.59,384.01,382.1,379.43,218.87,219.51,223.25,52.73,52.24,48.97,33.64,37.44,33.07,62.54,64.28,59.09,0.98,0.87,0.92,0.98,0.87,0.92,7331.3,5211.91,9026.24,108.99,100.79,25.79
2016-08-15 15:42:50,285.26,292.01,263.93,383.92,381.92,379.35,218.85,219.43,223.16,52.62,52.05,48.81,33.6,37.37,32.96,62.43,64.08,58.9,1,0.9,0.91,1,0.9,0.91,7331.46,5212.02,9026.42,108.37,100.28,25.80
2016-08-15 15:42:55,285.67,292.54,264.4,384.01,382.05,379.42,218.88,219.51,223.21,52.69,52.14,48.89,33.62,37.42,32.99,62.51,64.18,58.98,0.96,0.85,0.92,0.96,0.85,0.92,7331.66,5212.16,9026.67,107.11,100.31,25.80
2016-08-15 15:43:00,285.26,292.04,264.03,383.7,381.74,379.12,218.7,219.33,223.04,52.59,52.07,48.83,33.49,37.27,32.87,62.35,64.03,58.86,0.99,0.85,0.92,0.99,0.85,0.92,7331.82,5212.26,9026.86,108.53,100.72,25.83
2016-08-15 15:43:05,303.86,310.71,283.74,382.43,380.15,377.47,217.66,218.47,222.36,55.31,55.22,52.11,36.26,39.48,35.57,66.14,67.88,63.09,0.95,0.85,0.9,0.95,0.85,0.9,7332.02,5212.4,9027.1,108.17,100.77,25.75
2016-08-15 15:43:10,290.55,297.42,271.2,383.47,381.33,378.67,218.45,219.12,222.87,52.92,52.71,49.71,34.67,37.97,34.63,27.64,96.60,23,0.98,0.89,0.92,0.98,0.89,0.92,7332.18,5212.5,9027.29,107.4,100.30,25.82
2016-08-15 15:43:15,287.53,294.31,268.55,383.62,381.57,378.91,218.62,219.21,222.98,52.25,52.04,49.12,34.56,37.8,33.9,62.65,64.32,59.68,0.94,0.85,0.89,0.94,0.85,0.89,7332.34,5212.61,9027.49,107.90,100.69,25.82
2016-08-15 15:43:20,286.06,292.77,267.02,384.35,382.24,379.59,219.07,219.59,223.35,52.16,51.87,48.98,34.74,37.99,34.02,62.67,64.29,59.64,1,0.88,0.93,1,0.88,0.93,7332.54,5212.75,9027.74,107.5,100.37,25.83
2016-08-15 15:43:25,273.81,280.59,253.74,384.62,382.69,380.19,219.43,219.84,223.49,50.43,49.86,46.81,32.7,36.36,32.08,60.1,61.71,56.75,1,0.9,0.92,1,0.9,0.92,7332.7,5212.86,9027.92,107.89,100.10,25.77

2016-08-15 15:43:30,274.83,281.42,254.62,384.98,383.03,380.46,219.61,220.04,223.67,50.79,50.19,47.09,32.85,36.56,32.2,60.49,62.09,57.05,1.02,0.89,0.93,1.02,0.89,0.93,7332.85,5212.96,9028.1,107.63,100.69,25.80
2016-08-15 15:43:35,276.34,283.1,255.96,384.9,382.99,380.36,219.53,220.03,223.64,50.99,50.42,47.3,32.87,36.58,32.23,60.66,62.29,57.24,1.01,0.9,0.95,1.01,0.9,0.95,7332.99,5213.06,9028.28,108.36,100.93,25.80
2016-08-15 15:43:40,276.94,283.63,256.39,384.94,383.03,380.42,219.55,220.05,223.68,51.16,50.55,47.43,32.95,36.67,32.29,60.85,62.45,57.38,1.02,0.87,0.9,1.02,0.87,0.9,7333.19,5213.2,9028.52,108.75,100.15,25.75
2016-08-15 15:43:45,277.33,283.9,256.63,384.99,383.01,380.47,219.59,220.05,223.69,51.38,50.75,47.61,32.97,36.71,32.31,61.04,62.64,57.54,0.99,0.87,0.9,0.99,0.87,0.9,7333.34,5213.3,9028.7,108.73,100.65,25.81
2016-08-15 15:43:50,279.03,285.8,258.39,384.54,382.56,380.01,219.29,219.8,223.44,51.6,51.05,47.88,32.88,36.61,32.26,61.19,62.82,57.74,1.01,0.9,0.93,1.01,0.9,0.93,7333.54,5213.43,9028.94,108.40,100.94,25.80
2016-08-15 15:43:55,280.29,287.25,259.51,384.84,382.89,380.29,219.45,219.99,223.63,51.97,51.42,48.23,33.03,36.78,32.4,61.57,63.22,58.1,1,0.88,0.92,1,0.88,0.92,7333.69,5213.53,9029.13,108.98,100.96,25.83
2016-08-15 15:44:00,299.08,305.95,279.57,383.99,381.76,379.08,218.71,219.37,223.15,53.98,53.84,50.79,35.15,38.41,34.48,64.41,66.14,61.39,1.01,0.9,0.88,1.01,0.9,0.88,7333.84,5213.64,9029.31,108.22,100.68,25.85
2016-08-15 15:44:05,292.08,298.82,272.44,384.44,382.28,379.6,219.03,219.65,223.42,53.52,53.27,50.27,35.04,38.34,34.32,63.97,65.64,60.87,0.96,0.83,0.87,0.96,0.83,0.87,7334.05,5213.78,9029.56,107.6,100.66,25.85
2016-08-15 15:44:10,290.74,297.53,271.21,384.03,381.85,379.23,218.8,219.42,223.18,53.25,52.99,50.01,34.83,38.1,34.1,63.63,65.27,60.53,0.97,0.84,0.88,0.97,0.84,0.88,7334.21,5213.89,9029.75,107.66,100.19,25.82
2016-08-15 15:44:15,290.31,296.97,270.73,384.08,381.94,379.34,218.88,219.45,223.21,52.9,52.59,49.65,34.59,37.89,33.87,63.21,64.82,60.1,0.98,0.85,0.89,0.98,0.85,0.89,7334.36,5213.99,9029.94,108.56,100.29,25.75
2016-08-15 15:44:20,279.98,286.09,258.07,384.88,382.97,380.43,219.54,219.98,223.69,51.75,50.89,47.8,33.18,37.03,32.37,61.47,62.94,57.73,0.95,0.82,0.91,0.95,0.82,0.91,7334.52,5214.1,9030.13,108.76,100.34,25.81
2016-08-15 15:44:25,293.96,300.02,270.98,384.12,382.14,379.5,218.86,219.57,223.32,54.43,53.76,50.4,33.72,37.68,33.02,64.03,65.65,60.25,0.98,0.84,0.88,0.98,0.84,0.88,7334.72,5214.23,9030.38,107.33,100.9,25.78
2016-08-15 15:44:30,288.06,294.17,265.75,384.28,382.39,379.83,219.05,219.69,223.45,53.21,52.46,49.27,33.5,37.34,32.75,62.88,64.39,59.16,0.97,0.83,0.88,0.97,0.83,0.88,7334.88,5214.34,9030.56,107.15,100.6,25.78
2016-08-15 15:44:35,288.44,294.86,266.33,384.04,382.2,379.61,218.82,219.49,223.5,53.22,52.57,49.38,33.94,37.75,33.24,63.12,64.72,59.53,0.99,0.85,0.93,0.99,0.85,0.93,7335.09,5214.48,9030.81,107.10,100.92,25.80
2016-08-15 15:44:40,287.25,293.71,265.19,384.15,382.28,379.73,218.9,219.54,223.56,52.85,52.23,49.03,33.84,37.64,33.17,62.76,64.38,59.2,0.97,0.83,0.9,0.97,0.83,0.9,7335.24,5214.58,9031.1,107.33,100.44,25.80
2016-08-15 15:44:45,286.75,293.27,264.78,384.05,382.22,379.62,218.83,219.5,223.51,52.98,52.33,49.16,33.85,37.64,33.15,62.87,64.46,59.29,1.01,0.86,0.92,1.01,0.86,0.92,7335.4,5214.69,9031.19,108.43,100.12,25.76
2016-08-15 15:44:50,288.16,294.69,266.05,384.56,382.73,380.13,219.13,219.78,223.81,53.22,52.58,49.36,33.98,37.82,33.3,63.15,64.77,59.54,0.99,0.86,0.9,0.99,0.86,0.9,7335.6,5214.83,9031.44,108.14,100.79,25.78
2016-08-15 15:44:55,302.31,308.86,281.36,383.26,381.13,378.43,218.1,218.94,223.05,55.04,54.76,51.65,35.72,39.14,35,65.61,67.31,62.39,0.96,0.8,0.89,0.96,0.8,0.89,7335.76,5214.93,9031.62,107.19,100.97,25.77
2016-08-15 15:45:00,300.1,306.64,278.82,383.51,381.43,378.76,218.33,219.09,223.17,54.69,54.34,51.23,35.72,39.19,34.97,65.33,66.99,62.03,1,0.86,0.92,1,0.86,0.92,7335.92,5215.04,9031.82,107.13,100.0,25.81
2016-08-15 15:45:05,298.02,304.52,277.05,383.62,381.56,378.9,218.43,219.14,223.24,54.41,54.05,51.02,35.73,39.14,34.96,65.09,66.73,61.85,1.04,0.92,0.94,1.04,0.92,0.94,7336.08,5215.15,9032.02,108.4,100.10,25.80
2016-08-15 15:45:10,297.42,303.99,276.36,383.73,381.66,379.07,218.53,219.18,223.31,54.26,53.91,50.88,35.85,39.25,35.08,65.04,66.68,61.8,0.97,0.87,0.92,0.97,0.87,0.92,7336.3,5215.3,9032.27,108.67,100.26,25.79
2016-08-15 15:45:15,287.35,293.78,265.62,384.89,383.06,380.56,219.48,219.93,223.95,52.3,51.56,48.46,33.96,37.75,33.23,62.36,63.9,58.76,1.03,0.89,0.95,1.03,0.89,0.95,7336.45,5215.41,9032.47,108.59,100.6,25.77
2016-08-15 15:45:20,282.16,288.7,260.56,384.55,382.73,380.22,219.29,219.74,223.75,51.84,51.12,48.02,33.77,37.57,33.06,61.87,63.44,58.3,1.03,0.9,0.95,1.03,0.9,0.95,7336.66,5215.55,9032.72,108.50,100.52,25.77
2016-08-15 15:45:25,237.84,243.48,221.86,387.77,386.43,383.89,221.54,222.02,225.31,45.29,44.94,42.34,26.95,30.11,26.6,52.71,54.09,50,1.02,0.89,0.94,1.02,0.89,0.94,7336.81,5215.65,9032.91,107.63,100.18,25.76
2016-08-15 15:45:30,237.68,243.43,221.78,387.5,386.18,383.59,221.36,221.89,225.14,45.28,44.95,42.31,26.85,30.03,26.53,52.64,54.06,49.94,1.07,0.93,0.97,1.07,0.93,0.97,7336.95,5215.74,9033.07,107.88,100.59,25.80
2016-08-15 15:45:35,236.61,243.05,222.06,387.82,386.46,383.81,221.53,222.06,225.27,45.07,45.01,42.38,26.76,29.79,26.58,52.42,53.97,50.02,1.05,0.92,0.99,1.05,0.92,0.99,7337.13,5215.86,9033.28,107.59,100.85,25.83
2016-08-15 15:45:40,236.77,243.08,222.07,387.41,385.98,383.37,221.26,221.83,225.45,12.45,05.42,41.26,65,29.66,26.45,52.4,53.94,49.98,1.04,0.92,0.96,1.04,0.92,0.96,7337.26,5215.94,9033.44,108.22,100.2,25.81
2016-08-15 15:45:45,236.99,243.37,222.26,387.29,385.87,383.2,221.16,221.78,224.91,45.22,45.17,42.51,26.67,29.7,26.48,52.49,54.05,50.08,1.03,0.9,0.98,1.03,0.9,0.98,7337.4,5216.02,9033.59,107.19,100.52,25.85
2016-08-15 15:45:50,251.81,258.46,238.97,386.65,384.92,382.15,220.54,221.27,224.54,47.35,47.73,45.28,29.02,31.5,28.8,55.53,57.19,53.66,1.06,0.93,0.97,1.06,0.93,0.97,7337.53,5216.1,9033.75,108.64,100.20,25.79
2016-08-15 15:45:55,248.36,254.9,235.18,387.01,385.39,382.71,220.86,221.48,224.8,46.58,46.82,44.38,28.72,31.31,28.48,54.72,56.32,52.73,1.01,0.92,0.94,1.01,0.92,0.94,7337.71,5216.22,9033.97,107.65,100.69,25.85
2016-08-15 15:46:00,267.45,273.96,251.47,385.88,384.17,381.5,220.06,220.74,224.3,49.21,49.23,46.55,30.62,33.54,30.25,57.96,59.57,55.51,1,0.89,0.92,1,0.89,0.92,7337.85,5216.31,9034.13,107.15,100.85,25.82
2016-08-15 15:46:05,264.13,270.9,248.26,385.62,383.93,381.2,219.86,220.61,224.16,49.4,49.46,46.73,30.54,33.5,30.22,58.07,59.76,55.65,1.02,0.91,0.96,1.02,0.91,0.96,7338.04,5216.45,9034.36,107.64,100.26,25.84

2016-08-15 15:46:10,251.56,258.11,234.74,386.31,384.85,382.24,220.5,221.1,224.55,47.54,47.27,44.43,28.7,32.02,28.38,55.53,57.1,52.72,1.02,0.88,0.97,1.02,0.88,0.97,7338.19,5216.54,9034.53,107.36,100.29,25.80
2016-08-15 15:46:15,252.05,258.45,235.09,386.67,385.13,382.54,220.72,221.25,224.72,47.7,47.41,44.61,28.78,32.08,28.42,55.71,57.24,52.89,1.02,0.9,0.95,1.02,0.9,0.95,7338.32,5216.63,9034.7,107.56,100.41,25.84
2016-08-15 15:46:20,253.51,259.75,236.18,386.97,385.4,382.81,220.89,221.43,224.86,47.99,47.65,44.82,28.86,32.21,28.49,56.57,52.53,1.1,1.01,0.9,0.94,1.01,0.9,0.94,7338.51,5216.75,9034.92,107.21,100.42,25.78
2016-08-15 15:46:25,267.01,273.5,249,385.62,384.08,381.34,219.85,220.74,224.21,50.43,50.32,47.32,29.12,32.5,28.89,58.24,59.9,55.44,1.01,0.91,0.96,1.01,0.91,0.96,7338.65,5216.84,9035.08,107.69,100.13,25.83
2016-08-15 15:46:30,261.76,268.3,244.24,385.97,384.51,381.77,220.13,220.96,224.4,49.62,49.45,46.45,28.89,32.31,28.67,57.42,59.07,54.58,1.02,0.9,0.95,1.02,0.9,0.95,7338.8,5216.93,9035.26,108.95,100.58,25.77
2016-08-15 15:46:35,259.21,265.96,241.9,386.36,384.94,382.19,220.4,221.18,224.64,49.3,49.16,46.15,28.87,32.3,28.68,57.13,58.82,54.34,1.01,0.87,0.93,1.01,0.87,0.93,7338.95,5217.02,9035.43,107.47,100.50,25.84
2016-08-15 15:46:40,300.35,306.59,277.31,383.64,381.78,379.15,218.51,219.26,223.32,56.62,56.04,52.88,36.56,40.24,35.87,67.4,68.99,63.9,1,0.84,0.92,1,0.84,0.92,7339.14,5217.14,9035.66,107.31,100.86,25.78
2016-08-15 15:46:45,307.94,314.43,286.65,383.59,381.52,378.87,218.43,219.09,223.24,55.48,55.03,52.01,36.7,40.2,36.03,66.52,68.15,63.27,1,0.89,0.9,1,0.89,0.9,7339.29,5217.24,9035.84,107.94,100.74,25.76
2016-08-15 15:46:50,303.01,309.73,281.86,383.18,381.17,378.46,218.18,218.9,223.55,18.54,74.51,66.36,41.40,01,35.8,66.11,67.8,62.85,0.99,0.87,0.91,0.99,0.87,0.91,7339.52,5217.39,9036.11,107.40,100.62,25.84
2016-08-15 15:46:55,304.23,311.09,282.99,383.31,381.26,378.55,218.24,218.95,223.06,55.56,55.14,52.01,36.5,40.12,35.89,66.48,68.19,63.19,1,0.88,0.91,1,0.88,0.91,7339.68,5217.51,9036.31,107.42,100.52,25.75
2016-08-15 15:47:00,299.2,305.98,277.49,384.08,382.22,379.59,218.87,219.48,223.49,53.97,53.3,50.06,34.7,38.67,34.15,64.17,65.85,60.6,0.99,0.86,0.9,0.99,0.86,0.9,7339.84,5217.62,9036.51,108.56,100.48,25.75
2016-08-15 15:47:05,293.62,300.25,271.52,384.52,382.68,380.1,219.17,219.71,223.78,54.09,53.33,50.17,34.87,38.82,34.28,64.35,65.97,60.76,0.95,0.84,0.87,0.95,0.84,0.87,7340.05,5217.76,9036.77,107.64,100.85,25.79
2016-08-15 15:47:10,293.95,301.09,272.28,384.19,382.45,379.78,218.94,219.57,223.65,54.19,53.59,50.36,34.69,38.66,34.22,64.34,66.08,60.88,0.98,0.87,0.9,0.98,0.87,0.9,7340.21,5217.87,9036.96,108.81,100.97,25.83
2016-08-15 15:47:15,294.34,301.06,272.28,383.89,382.07,379.45,218.75,219.38,223.44,54.31,53.66,50.43,34.68,38.64,34.16,64.44,66.12,60.91,0.97,0.84,0.92,0.97,0.84,0.92,7340.37,5217.98,9037.15,107.38,100.41,25.84
2016-08-15 15:47:20,295.71,302.92,273.53,383.75,381.97,379.24,218.62,219.34,223.35,54.61,54.02,50.65,34.6,38.69,34.16,64.65,66.44,61.09,0.97,0.84,0.89,0.97,0.84,0.89,7340.53,5218.09,9037.34,108.59,100.84,25.82
2016-08-15 15:47:25,296.97,304.11,274.65,384.13,382.36,379.65,218.83,219.57,223.6,54.94,54.33,50.97,34.77,38.84,34.32,65.02,66.78,61.44,0.99,0.87,0.92,0.99,0.87,0.92,7340.74,5218.23,9037.59,107.18,100.40,25.81
2016-08-15 15:47:30,297.87,304.64,275.29,384.38,382.55,379.93,218.99,219.68,223.73,55.18,54.52,51.16,34.88,38.96,34.4,65.28,67.01,61.65,0.97,0.85,0.9,0.97,0.85,0.9,7340.9,5218.34,9037.79,108.43,100.19,25.77
2016-08-15 15:47:35,319.79,326.75,298.08,382.74,380.62,377.8,217.63,218.64,222.86,58.48,58.31,55.06,37.74,41.28,37.17,69.6,71.44,66.43,0.99,0.88,0.88,0.99,0.88,0.88,7341.11,5218.48,9038.05,107.9,100.55,25.78
2016-08-15 15:47:40,309.84,316.76,288.28,383.6,381.6,378.84,218.31,219.16,223.32,56.71,56.28,53.1,36.77,40.43,36.14,67.59,69.29,64.24,1,0.87,0.89,1,0.87,0.89,7341.28,5218.59,9038.25,108.80,100.62,25.77
2016-08-15 15:47:45,308,314.67,286.27,383.68,381.66,378.93,218.41,219.19,223.32,56.18,55.75,52.6,36.65,40.3,36.03,67.08,68.79,63.76,0.99,0.88,0.89,0.99,0.88,0.89,7341.44,5218.7,9038.45,107.85,100.96,25.79
2016-08-15 15:47:50,306.58,313.32,284.87,384,381.93,379.22,218.7,219.39,223.33,56.11,55.6,52.42,36.71,40.42,36.05,67.05,68.74,63.62,0.96,0.82,0.85,0.96,0.82,0.85,7341.67,5218.85,9038.72,108.4,100.19,25.79
2016-08-15 15:47:55,301.66,308.49,279.81,383.9,381.92,379.24,218.71,219.38,223.28,54.15,53.44,50.09,34.66,38.77,34.16,64.29,66.02,60.63,1,0.86,0.9,1,0.86,0.9,7341.83,5218.97,9038.92,108.6,100.84,25.82
2016-08-15 15:48:00,293.35,300.43,271.39,384.49,382.64,380.04,219.2,219.76,223.61,54.11,53.37,50.09,34.77,38.84,34.25,64.32,66.01,60.68,0.99,0.87,0.89,0.99,0.87,0.89,7341.99,5219.08,9039.11,107.47,100.1,25.85
2016-08-15 15:48:05,292.78,299.63,270.72,384.53,382.76,380.12,219.24,219.8,223.67,53.96,53.19,49.95,34.77,38.83,34.23,64.19,65.86,60.55,0.98,0.86,0.89,0.98,0.86,0.89,7342.15,5219.19,9039.3,107.78,100.68,25.78
2016-08-15 15:48:10,293.31,300.11,271.17,384.7,382.88,380.3,219.36,219.88,223.76,54.15,53.36,50.13,34.86,38.93,34.28,64.4,66.05,60.73,1.03,0.91,0.95,1.03,0.91,0.95,7342.36,5219.33,9039.56,108.16,100.44,25.75
2016-08-15 15:48:15,294.18,300.97,271.83,384.88,383.1,380.44,219.44,219.99,223.86,54.26,53.5,50.24,34.88,38.96,34.34,64.5,66.18,60.85,1.01,0.88,0.87,1.01,0.88,0.87,7342.52,5219.44,9039.75,108.33,100.22,25.82
2016-08-15 15:48:20,305.48,312.22,281.92,383.57,381.7,378.94,218.45,219.31,223.11,56.77,56.06,52.55,35.08,39.32,34.56,66.73,68.47,62.9,0.99,0.86,0.86,0.99,0.86,0.86,7342.73,5219.58,9040,107.65,100.66,25.77
2016-08-15 15:48:25,308.08,314.72,284.3,383.6,381.67,378.96,218.43,219.28,223.18,56.99,56.3,52.81,35.12,39.36,34.6,66.95,68.7,63.13,0.99,0.86,0.9,0.99,0.86,0.9,7342.89,5219.69,9040.2,108.71,100.42,25.84
2016-08-15 15:48:30,317.76,324.6,294.78,382.22,380.07,377.25,217.38,218.4,222.41,58.87,58.6,55.26,37.34,41.03,36.75,69.71,71.54,66.36,0.96,0.82,0.89,0.96,0.82,0.89,7343.06,5219.8,9040.4,108.53,100.91,25.83
2016-08-15 15:48:35,311.41,317.95,289.06,383.39,381.29,378.6,218.28,219.04,223.03,57.18,56.65,53.43,36.76,40.5,36.07,67.97,69.64,64.47,0.98,0.85,0.9,0.98,0.85,0.9,7343.28,5219.94,9040.67,108.63,100.59,25.80
2016-08-15 15:48:40,307.98,314.63,285.94,383.45,381.34,378.61,218.33,219.08,223.01,56.3,55.8,52.6,36.47,40.2,35.82,67.08,68.77,63.64,0.95,0.85,0.9,0.95,0.85,0.9,7343.45,5220.06,9040.87,108.75,100.5,25.85
2016-08-15 15:48:45,311.42,318.23,289.28,381.71,379.66,376.98,217.28,218.1,222.12,56.74,56.31,53.06,36.79,40.53,36.19,67.63,69.38,64.23,0.9,0.78,0.87,0.9,0.78,0.87,7343.62,5220.17,9041.07,107.66,100.60,25.81

2016-08-15 15:48:50,304.68,311.48,282.43,382.95,381.01,378.38,218.14,218.82,222.85,55.74,55.13,51.91,36.2,40.07,35.6,66.46,68.16,62.94,0.95,0.82,0.91,0.95,0.82,0.91,7343.78,5220.28,9041.27,108.61,100.3,25.77
2016-08-15 15:48:55,298.4,305.25,275.76,383.3,381.44,378.8,218.43,219.07,222.99,54.89,54.13,50.84,35.28,39.35,34.67,65.25,66.92,61.54,0.96,0.83,0.9,0.96,0.83,0.9,7344,5220.43,9041.54,107.94,100.79,25.77
2016-08-15 15:49:00,298.99,305.74,276.29,384.25,382.35,379.79,219.03,219.57,223.53,54.99,54.21,50.96,35.58,39.62,34.97,65.5,67.15,61.8,0.94,0.78,0.87,0.94,0.78,0.87,7344.16,5220.54,9041.73,108.23,100.6,25.83
2016-08-15 15:49:05,299.08,306.04,276.5,383.95,382.08,379.45,218.81,219.43,223.37,55.02,54.29,50.97,35.43,39.52,34.87,65.44,67.15,61.76,0.94,0.8,0.91,0.94,0.8,0.91,7344.37,5220.69,9041.99,107.29,100.83,25.84
2016-08-15 15:49:10,300.09,306.84,277.21,384.06,382.16,379.56,218.87,219.49,223.42,55.39,54.64,51.28,35.49,39.61,34.94,65.78,67.49,62.06,0.96,0.81,0.89,0.96,0.81,0.89,7344.53,5220.8,9042.18,108.18,100.76,25.80
2016-08-15 15:49:15,301.45,308.47,278.55,383.89,382.1,379.39,218.74,219.43,223.38,55.62,54.92,51.51,35.46,39.64,34.97,65.96,67.73,62.26,0.94,0.81,0.87,0.94,0.81,0.87,7344.69,5220.91,9042.38,107.70,100.15,25.76
2016-08-15 15:49:20,302.55,309.65,279.42,383.64,381.8,379.13,218.58,219.29,223.22,55.86,55.14,51.69,35.4,39.62,34.91,66.13,67.9,62.37,0.93,0.8,0.9,0.93,0.8,0.9,7344.91,5221.05,9042.64,108.35,100.85,25.82
2016-08-15 15:49:25,316,322.97,293.18,382.46,380.45,377.71,217.66,218.56,222.59,59.06,58.8,55.38,37.98,41.73,37.41,70.22,72.1,66.83,0.95,0.84,0.9,0.95,0.84,0.9,7345.07,5221.16,9042.84,107.63,100.67,25.75
2016-08-15 15:49:30,272.84,279.94,256.3,385.78,384.11,381.27,219.93,220.79,224.16,51.2,51.35,48.34,30.68,33.87,30.48,59.69,61.52,57.14,0.98,0.82,0.93,0.98,0.82,0.93,7345.24,5221.27,9043.04,107.94,100.24,25.81
2016-08-15 15:49:35,269.05,276.17,252.75,385.58,383.95,381.16,219.84,220.67,224.08,50.65,50.78,47.82,30.55,33.7,30.34,59.15,60.94,56.64,1,0.86,0.93,1,0.86,0.93,7345.4,5221.38,9043.23,107.56,100.15,25.81
2016-08-15 15:49:40,268.39,275.31,252.01,385.78,384.05,381.24,219.94,220.76,224.11,50.44,50.48,47.58,30.67,33.77,30.35,59.03,60.73,56.44,1,0.01,0.85,0.94,1,0.01,0.85,0.94,7345.6,5221.5,9043.47,108.63,100.97,25.80
2016-08-15 15:49:45,267.68,274.38,251.16,386.22,384.57,381.85,220.32,221.03,224.38,49.75,49.66,46.74,30.02,33.26,29.73,58.11,59.77,55.39,0.97,0.84,0.91,0.97,0.84,0.91,7345.75,5221.6,9043.65,108.21,100.42,25.83
2016-08-15 15:49:50,255.43,262.238,07,386.15,384.67,381.99,220.39,221.07,224.35,48.49,48.24,45.27,28.6,32.06,28.35,56.29,57.92,53.41,0.97,0.83,0.93,0.97,0.83,0.93,7345.95,5221.72,9043.88,107.85,100.13,25.83
2016-08-15 15:49:55,255.44,262.24,238.06,386.5,384.99,382.32,220.61,221.26,224.52,48.59,48.34,45.33,28.71,32.2,28.47,56.43,58.08,53.53,0.95,0.83,0.91,0.95,0.83,0.91,7346.09,5221.81,9044.05,107.22,100.2,25.78
2016-08-15 15:50:00,255.86,262.88,238.47,386.52,385.07,382.37,220.63,221.28,224.57,48.61,48.41,45.36,28.67,32.21,28.5,56.43,58.14,53.57,0.91,0.77,0.87,0.91,0.77,0.87,7346.23,5221.9,9044.22,107.30,100.85,25.76
2016-08-15 15:50:05,256.97,263.73,239.27,386.74,385.23,382.54,220.74,221.39,224.66,48.89,48.63,45.55,28.77,32.32,28.54,56.72,58.39,53.75,0.91,0.77,0.87,0.91,0.77,0.87,7346.42,5222.02,9044.44,107.65,100.7,25.79
2016-08-15 15:50:10,258.01,264.7,240.37,386.31,384.83,382.13,220.38,221.13,224.57,49.17,49.45,49.28,65.32,15.28,45.56,91.58,6.54,0.93,0.81,0.88,0.93,0.81,0.88,7346.56,5222.11,9044.61,107.83,100.7,25.82
2016-08-15 15:50:15,259.3,266.06,241.44,386.1,384.57,381.83,220.21,221.02,224.41,49.58,49.34,46.22,28.66,32.24,28.44,57.26,58.94,54.27,0.93,0.78,0.89,0.93,0.78,0.89,7346.71,5222.19,9044.78,107.83,100.89,25.75
2016-08-15 15:50:20,284.07,290.77,265.02,385.03,383.22,380.35,219.2,220.37,223.83,54.11,54.14,50.83,30.82,34.27,30.58,62.27,64.08,59.32,0.95,0.81,0.87,0.95,0.81,0.87,7346.85,5222.28,9044.95,107.71,100.87,25.79
2016-08-15 15:50:25,282.11,288.92,264.47,383.93,382.11,379.17,218.51,219.73,223.2,52.7,52.87,49.81,30.69,33.84,30.4,60.99,62.77,58.36,0.95,0.82,0.93,0.95,0.82,0.93,7347.05,5222.41,9045.18,107.5,100.17,25.66
2016-08-15 15:50:30,274.51,281.14,257.25,385.6,383.82,380.97,219.69,220.63,224.11,51.5,51.61,48.63,30.72,33.85,30.42,59.97,61.72,57.36,0.95,0.8,0.88,0.95,0.8,0.88,7347.21,5222.5,9045.37,108.65,100.25,25.71
2016-08-15 15:50:35,269.96,276.92,253.25,385.07,383.32,380.46,219.39,220.35,223.8,50.81,50.95,47.97,30.44,33.57,30.19,59.23,61.02,56.68,0.91,0.78,0.87,0.91,0.78,0.87,7347.42,5222.63,9045.61,107.79,100.23,25.71
2016-08-15 15:50:40,268.79,275.68,252.2,385.38,383.61,380.78,219.61,220.51,223.96,49.8,49.78,46.81,29.79,33.04,29.52,58.03,59.75,55.34,0.93,0.83,0.87,0.93,0.83,0.87,7347.57,5222.72,9045.79,108.96,100.90,25.68
2016-08-15 15:50:45,255.75,262.35,238.24,386.45,384.91,382.18,220.49,221.2,224.55,48.51,48.27,45.28,28.67,32.13,28.4,56.34,57.99,53.45,0.93,0.81,0.87,0.93,0.81,0.87,7347.72,5222.82,9045.96,108.55,100.47,25.73
2016-08-15 15:50:50,255.26,262.05,237.81,386.64,385.12,382.36,220.61,221.32,224.64,48.47,48.25,45.22,28.67,32.19,28.45,56.31,58.53,42.0,0.92,0.78,0.9,0.92,0.78,0.9,7347.91,5222.94,9046.19,107.95,100.62,25.73
2016-08-15 15:50:55,255.64,262.32,238.02,386.58,385.02,382.31,220.57,221.28,224.6,48.56,48.31,45.29,28.68,32.18,28.42,56.4,58.04,53.47,0.92,0.79,0.87,0.92,0.79,0.87,7348.05,5223.02,9046.36,107.10,100.18,25.73
2016-08-15 15:51:00,236.62,243.12,221.66,387.74,386.29,383.53,221.44,222.04,225.07,45.07,44.97,42.24,26.67,29.82,26.48,52.37,53.96,49.85,0.97,0.85,0.91,0.97,0.85,0.91,7348.19,5223.11,9046.52,108.25,100.78,25.74
2016-08-15 15:51:05,236.8,243.53,221.87,387.52,386.1,383.31,221.3,221.93,224.96,45.15,45.09,42.32,26.6,29.8,26.46,52.4,54.05,49.91,0.97,0.86,0.93,0.97,0.86,0.93,7348.33,5223.2,9046.68,108.79,100.50,25.74
2016-08-15 15:51:10,237.32,243.96,222.21,387.68,386.22,383.46,221.39,222.01,225.03,45.2,45.11,42.37,26.64,29.83,26.49,52.46,54.09,49.97,0.97,0.83,0.91,0.97,0.83,0.91,7348.51,5223.31,9046.89,107.59,100.71,25.65
2016-08-15 15:51:15,237.87,244.61,222.87,387.74,386.29,383.56,221.44,222.04,225.09,45.35,45.26,24.5,26.7,29.89,26.53,52.62,54.23,50.1,0.94,0.83,0.91,0.94,0.83,0.91,7348.64,5223.39,9047.05,108.91,100.21,25.67
2016-08-15 15:51:20,237.96,244.45,222.78,386.71,385.28,382.55,220.8,221.48,224.52,45.38,45.3,42.54,26.48,29.66,26.31,52.54,54.14,50.02,0.96,0.85,0.93,0.96,0.85,0.93,7348.82,5223.5,9047.26,108.13,100.1,25.72
2016-08-15 15:51:25,250.52,257.12,236.77,386.17,384.44,381.64,220.27,221.05,224.18,47.04,47.27,44.68,28.55,31.28,28.32,55.03,56.68,52.9,0.95,0.85,0.89,0.95,0.85,0.89,7348.95,5223.58,9047.42,108.16,100.12,25.72

2016-08-15 15:51:30,248.25,255.02,234.57,386.384.4,381.59,220.22,220.98,224.15,46.73,46.97,44.39,28.38,31.12,28.19,54.67,56.35,52.59,0.99,0.89,0.92,0.99,0.89,0.92,7349.09,5223.67,9047.58,107.57,100.19,25.69
2016-08-15 15:51:35,247.99,254.62,234.35,386.06,384.44,381.66,220.27,221.224.18,46.61,46.84,44.29,28.39,31.1,28.17,54.58,56.22,52.49,0.94,0.83,0.91,0.94,0.83,0.91,7349.28,5223.79,9047.8,108.93,100.26,25.66
2016-08-15 15:51:40,248.19,254.88,234.44,385.72,384.11,381.31,220.05,220.82,223.99,46.67,46.92,44.33,28.3,31.04,28.11,54.58,56.26,52.49,0.97,0.85,0.94,0.97,0.85,0.94,7349.41,5223.88,9047.97,108.19,100.44,25.65
2016-08-15 15:51:45,290.19,297.11,270.69,383.03,380.93,378.17,218.09,218.87,222.72,53.05,52.91,49.86,34.51,37.81,33.89,63.29,65.03,60.29,0.97,0.86,0.91,0.97,0.86,0.91,7349.6,5223.99,9048.18,107.69,100.33,25.67
2016-08-15 15:51:50,279.11,285.85,259.19,383.83,381.97,379.37,218.79,219.39,223.25,50.8,50.34,47.28,32.6,36.22,32.06,60.36,62.02,57.13,0.94,0.83,0.9,0.94,0.83,0.9,7349.75,5224.1,9048.37,108.33,100.3,25.73
2016-08-15 15:51:55,276.82,283.74,256.75,383.94,382.13,379.49,218.86,219.49,223.3,51.25,50.8,47.68,32.69,36.35,32.15,60.78,62.47,57.51,0.99,0.86,0.91,0.99,0.86,0.91,7349.91,5224.2,9048.56,108.24,100.55,25.74
2016-08-15 15:52:00,278.84,285.64,258.61,384.1,382.23,379.62,218.95,219.57,223.35,51.5,51.05,47.92,32.79,36.44,32.24,61.05,62.72,57.76,0.95,0.86,0.92,0.95,0.86,0.92,7350.11,5224.34,9048.8,108.89,100.56,25.70
2016-08-15 15:52:05,278.88,285.69,258.88,383.54,381.71,379.08,218.59,219.27,223.08,51.54,51.1,48.05,32.72,36.28,32.13,61.05,62.67,57.81,0.97,0.84,0.92,0.97,0.84,0.92,7350.26,5224.44,9048.98,108.60,100.37,25.73
2016-08-15 15:52:10,279.97,286.32,259.73,383.41,381.59,379.04,218.53,219.2,223.05,51.71,51.26,48.25,32.69,36.23,32.09,61.18,62.77,57.95,0.96,0.84,0.9,0.96,0.84,0.9,7350.41,5224.54,9049.16,108.72,100.16,25.74
2016-08-15 15:52:15,280.84,287.26,260.63,383.52,381.69,379.12,218.57,219.26,223.11,51.92,51.47,48.45,32.75,36.3,32.16,61.39,62.98,58.15,0.96,0.86,0.9,0.96,0.86,0.9,7350.61,5224.67,9049.4,108.36,100.4,25.70
2016-08-15 15:52:20,295.4,301.98,273.75,383.09,381.17,378.42,218.07,219.03,222.89,54.69,54.36,51.11,33.44,37.1,32.87,64.1,65.81,60.77,0.95,0.83,0.88,0.95,0.83,0.88,7350.76,5224.77,9049.59,107.59,100.9,25.70
2016-08-15 15:52:25,289.29,295.67,268.25,383.55,381.67,379.02,218.46,219.28,223.16,53.54,53.16,50.33,11.36,72.32,53.62,95.64,61.59,65.0,95.0,83,0.89,0.95,0.83,0.89,7350.92,5224.88,9049.78,107.14,100.72,25.66
2016-08-15 15:52:30,286.45,293.02,265.8,383.67,381.75,379.16,218.57,219.33,223.19,53.11,52.74,49.59,33.15,36.72,32.56,62.61,64.27,59.33,0.92,0.81,0.86,0.92,0.81,0.86,7351.13,5225.01,9050.03,108.50,100.11,25.73
2016-08-15 15:52:35,297.14,303.51,277.73,383.17,381.378.36,218.09,218.92,222.9,54.3,54.17,51.25,34.92,38.03,34.21,64.56,66.19,61.62,0.93,0.81,0.85,0.93,0.81,0.85,7351.28,5225.12,9050.21,108.21,100.46,25.73
2016-08-15 15:52:40,294.11,300.61,274.65,383.23,381.15,378.5,218.2,218.96,222.95,53.8,53.66,50.75,34.81,37.97,34.13,64.08,65.73,61.16,0.9,0.82,0.85,0.9,0.82,0.85,7351.45,5225.22,9050.41,107.92,100.45,25.75
2016-08-15 15:52:45,292.78,299.42,273.47,383.67,381.6,378.93,218.48,219.21,223.18,53.63,53.48,50.55,34.87,38.06,34.2,63.97,65.63,61.03,0.91,0.79,0.84,0.91,0.79,0.84,7351.66,5225.37,9050.67,107.11,100.11,25.73
2016-08-15 15:52:50,292.34,298.89,273.67,383.380.97,378.32,218.14,218.83,222.81,53.47,53.27,50.63,34.77,37.86,34.07,63.79,65.35,61.03,0.95,0.84,0.84,0.95,0.84,0.84,7351.82,5225.47,9050.85,107.80,100.68,25.72
2016-08-15 15:52:55,289.72,296.12,271.52,384.02,382.19,379.68,219.06,219.44,223.36,51.68,51.13,48.5,32.92,36.43,32.26,61.28,62.78,58.25,0.94,0.83,0.84,0.94,0.83,0.84,7351.98,5225.58,9051.05,108.51,99.11,25.66
2016-08-15 15:53:00,279.48,286.260.43,384.3,382.38,379.79,219.17,219.6,223.42,51.64,51.11,48.4,32.94,36.49,32.29,61.26,62.8,58.18,0.97,0.85,0.84,0.97,0.85,0.84,7352.18,5225.72,9051.3,108.72,99.31,25.70
2016-08-15 15:53:05,279.51,285.79,260.31,384.25,382.39,379.86,219.18,219.57,223.45,51.6,51.02,48.35,32.99,36.53,32.32,61.24,62.75,58.16,0.94,0.84,0.88,0.94,0.84,0.88,7352.33,5225.82,9051.48,108.95,99.69,25.71
2016-08-15 15:53:10,287.54,294.05,267.65,383.76,381.79,379.2,218.8,219.26,223.13,52.35,51.79,49.33,59.37,2.32,9.62,2.63,76.59,0.02,0.93,0.86,0.85,0.93,0.86,0.85,7352.48,5225.92,9051.66,108.54,99.91,25.75
2016-08-15 15:53:15,284.26,290.73,264.6,383.59,381.65,379.09,218.71,219.17,223.08,52.34,51.79,49.03,33.55,37.12,32.86,62.17,63.72,59.03,0.97,0.88,0.89,0.97,0.88,0.89,7352.69,5226.06,9051.91,108.68,99.16,
2016-08-15 15:53:20,284.91,291.3,265.1,383.99,382.379.44,218.94,219.38,223.27,52.49,51.92,49.17,33.66,37.23,32.95,62.36,63.89,59.19,0.95,0.83,0.88,0.95,0.83,0.88,7352.84,5226.16,9052.09,108.23,99.49,
2016-08-15 15:53:25,284.96,291.43,265.25,384.07,382.11,379.55,219.219.42,223.33,52.55,51.96,49.21,33.74,37.31,33.02,62.44,63.97,59.26,0.94,0.86,0.86,0.94,0.86,0.86,7352.99,5226.26,9052.28,108.13,99.69,
2016-08-15 15:53:30,285.43,291.73,265.48,384.59,382.61,380.07,219.3,219.71,223.64,52.64,52.01,49.27,33.87,37.46,33.13,62.6,64.1,59.37,0.98,0.88,0.88,0.98,0.88,0.88,7353.2,5226.4,9052.52,108.5,99.93,
2016-08-15 15:53:35,285.73,292.13,265.84,382.95,381.03,378.44,218.29,218.83,222.72,54.44,54.15,51.36,35.25,38.61,34.56,64.86,66.51,61.91,0.96,0.87,0.86,0.96,0.87,0.86,7353.35,5226.51,9052.71,107.63,99.50,
2016-08-15 15:53:40,300.15,306.74,281.41,382.87,380.64,378.01,218.07,218.65,222.63,54.47,54.23,51.54,35.58,38.78,34.82,65.06,66.66,62.2,0.94,0.83,0.87,0.94,0.83,0.87,7353.51,5226.61,9052.89,107.52,99.19,
2016-08-15 15:53:45,296.64,303.09,277.72,383.06,380.87,378.26,218.19,218.77,222.77,54.12,53.85,51.19,35.5,38.69,34.74,64.72,66.31,61.87,0.95,0.84,0.9,0.95,0.84,0.9,7353.72,5226.76,9053.16,108.67,99.24,
2016-08-15 15:53:50,296.11,302.57,277.19,383.15,380.97,378.36,218.27,218.81,222.81,53.96,53.69,51.04,35.52,38.71,34.76,64.6,66.19,61.75,0.93,0.84,0.88,0.93,0.84,0.88,7353.88,5226.86,9053.35,107.7,99.31,
2016-08-15 15:53:55,295.63,302.19,276.69,382.98,380.83,378.2,218.16,218.73,222.73,53.85,53.59,50.93,35.42,38.61,34.68,64.45,66.05,61.62,0.96,0.87,0.9,0.96,0.87,0.9,7354.04,5226.97,9053.54,107.71,99.60,
2016-08-15 15:54:00,293.75,300.26,275.08,383.14,381.378.39,218.29,218.8,222.83,53.46,53.18,50.57,35.4,38.57,34.64,64.12,65.7,61.3,0.97,0.88,0.89,0.97,0.88,0.89,7354.25,5227.12,9053.8,107.34,99.88,
2016-08-15 15:54:05,280.12,286.6,260.73,383.97,382.05,379.54,219.01,219.36,223.29,48.85,48.37,45.9,31.16,34.41,30.48,57.95,59.36,55.09,0.97,0.88,0.92,0.97,0.88,0.92,7354.41,5227.23,9053.99,107.20,99.23,

2016-08-15 15:54:10,235.52,241.42,221.89,387.05,385.57,383.05,221.22,221.55,224.71,44.84,44.62,42.42,26.64,29.56,26.3,52.16,53.52,49.91,0.98,0.9,0.89,0.98,0.9,0.89,7354.56,5227.33,9054.17,108.4,99.68,
2016-08-15 15:54:15,237.82,243.86,224.13,386.93,385.46,382.88,221.13,221.49,224.63,45.32,45.15,42.88,26.68,29.65,26.38,52.59,54.01,50.35,0.94,0.86,0.87,0.94,0.86,0.87,7354.74,5227.44,9054.39,108.85,99.63,
2016-08-15 15:54:20,248.41,254.49,233.79,385.99,384.46,381.75,220.34,220.98,224.15,47.12,47.02,44.61,26.93,29.98,26.68,54.27,55.77,51.98,0.95,0.86,0.92,0.95,0.86,0.92,7354.87,5227.52,9054.54,107.40,99.11,
2016-08-15 15:54:25,242.91,248.97,228.66,386.42,384.93,382.31,220.72,221.21,224.38,46.27,46.13,43.75,26.71,29.75,26.45,53.42,54.89,51.12,0.97,0.87,0.91,0.97,0.87,0.91,7355.01,5227.6,9054.7,108.97,99.39,
2016-08-15 15:54:30,240.87,246.68,226.57,386.71,385.19,382.63,220.92,221.37,224.53,46.02,45.81,43.49,26.72,29.72,26.39,53.21,54.61,50.87,0.95,0.85,0.89,0.95,0.85,0.89,7355.2,5227.71,9054.92,108.22,99.9,
2016-08-15 15:54:35,240.43,246.32,226.22,386.75,385.24,382.67,220.95,221.4,224.54,45.91,45.74,43.4,26.69,29.69,26.4,53.11,54.53,50.8,0.92,0.83,0.89,0.92,0.83,0.89,7355.33,5227.8,9055.08,108.6,99.28,
2016-08-15 15:54:40,240.59,246.43,226.27,386.08,384.61,382.01,220.53,221.04,224.2,45.94,45.78,43.42,26.5,29.5,26.23,53.03,54.46,50.72,0.93,0.83,0.88,0.93,0.83,0.88,7355.47,5227.88,9055.24,107.13,99.59,
2016-08-15 15:54:45,254.42,260.51,241.69,385.09,383.3,380.59,219.68,220.35,223.59,47.97,48.2,46.01,28.68,31.18,28.35,55.89,57.4,54.04,0.93,0.84,0.89,0.93,0.84,0.89,7355.65,5227.99,9055.45,107.84,99.41,
2016-08-15 15:54:50,252.42,258.04,239,385.54,383.77,381.09,220,220.63,223.81,47.6,47.64,45.49,28.55,31.11,28.11,55.51,56.9,53.48,1.01,0.98,1,1.01,0.98,1,7355.79,5228.08,9055.61,108.64,99.4,

Priedas Nr.3

T-21 25 kW savų reikmių transformatoriaus matavimo metu gauti duomenys

Laikas,"Srovė fazė A, A","Srovė fazė B, A","Srovė fazė C, A","Įtampa A-B, V","Įtampa B-C, V","Įtampa C-A, V","Įtampa A-N, V","Įtampa B-N, V","Įtampa C-N, V","Aktyvioji galia fazė A, kW","Aktyvioji galia fazė B, kW","Aktyvioji galia fazė C, kW","Reaktyvioji galia fazė A, kVAR","Reaktyvioji galia fazė B, kVAR","Reaktyvioji galia fazė C, kVAR","Suminė galia fazė A, kVA","Suminė galia fazė B, kVA","Suminė galia fazė C, kVA","THD/thd Įtampos fazė A-N, %","THD/thd Įtampos fazė B-N, %","THD/thd Įtampos fazė C-N, %","THD/thd Įtampos fazė A-B, %","THD/thd Įtampos fazė B-C, %","THD/thd Įtampos fazė C-A, %","Bendra aktyvioji energija, kWh","Bendra reaktyvioji energija, kVArh","Suminė energija, kWh","Apvijų temperatūra, °C","Alyvos temperatūra, °C","Aplinkos temperatūra, °C"

2016-08-15 09:15:00,59.2,57.08,64.44,395.83,393.2,396.02,228.32,228.49,227.52,12.04,11.11,12.9,6.25,6.94,7,13.56,13.1,14.68,1.66,1.74,1.61,1.66,1.74,1.61,5643.16,2297.66,6322.53,101.71,91.12,24.46
2016-08-15 09:15:05,59.32,57.29,64.53,395.91,393.67,396.01,228.38,228.52,227.74,12.04,11.06,12.89,6.25,6.88,7.01,13.57,13.03,14.67,1.71,1.74,1.29,1.71,1.74,1.29,5643.2,2297.67,6322.57,102.78,91.69,24.42
2016-08-15 09:15:10,59.31,57.22,64.49,396.33,393.59,396.64,228.83,228.55,227.81,12.01,11.08,12.89,6.29,6.88,7,13.56,13.05,14.67,1.67,1.62,1.4,1.67,1.62,1.4,5643.23,2297.69,6322.61,102.0,91.40,24.40
2016-08-15 09:15:15,59.25,57.07,64.36,396.393,12,396.44,228.75,228.24,227.62,12,11.08,12.89,6.31,6.89,7,13.55,13.05,14.67,1.66,1.62,1.37,1.66,1.62,1.37,5643.28,2297.71,6322.66,102.33,90.71,24.40
2016-08-15 09:15:20,59.49,57.12,64.68,396.28,394.21,396.34,228.56,228.81,227.98,12.1,11.07,12.91,6.22,6.93,7.05,13.61,13.06,14.71,1.84,1.89,1.37,1.84,1.89,1.37,5643.32,2297.72,6322.7,102.62,90.59,24.43
2016-08-15 09:15:25,59.42,57.18,64.55,396.47,393.93,396.73,228.87,228.73,227.92,12.08,11.06,12.88,6.28,6.95,7.09,13.62,13.06,14.7,1.86,1.94,1.41,1.86,1.94,1.41,5643.35,2297.74,6322.75,102.61,91.47,24.45
2016-08-15 09:15:30,59.45,57.15,64.52,396.04,393.6,396.32,228.61,228.49,227.74,12.06,11.06,12.87,6.32,6.97,7.11,13.61,13.07,14.71,1.84,1.92,1.42,1.84,1.92,1.42,5643.4,2297.76,6322.8,101.99,90.13,24.40
2016-08-15 09:15:35,59.45,57.08,64.66,396.67,393.85,397.08,229.08,228.76,227.95,12.09,11.04,12.89,6.25,6.93,7.11,13.61,13.04,14.72,1.65,1.64,1.34,1.65,1.64,1.34,5643.44,2297.77,6322.84,102.2,90.45,24.43
2016-08-15 09:15:40,59.52,56.94,64.59,395.95,393.28,396.47,228.72,228.28,227.7,12.16,11.01,12.92,6.21,6.91,7.13,13.65,13,14.75,1.66,1.82,1.56,1.66,1.82,1.56,5643.47,2297.79,6322.89,102.53,91.21,24.44
2016-08-15 09:15:45,59.97,57.2,64.97,396.27,393.74,396.49,228.58,229.5,227.1,12.11,11.03,12.91,6.25,6.9,7.11,13.63,13.01,14.73,1.62,1.68,1.56,1.62,1.68,1.56,5643.52,2297.81,6322.94,102.38,91.60,24.46
2016-08-15 09:15:50,62.59,59.97,67.74,396.21,393.65,396.47,228.44,229.35,227.29,12.6,11.59,13.42,6.37,7.03,7.15,14.12,13.56,15.21,1.7,1.68,1.38,1.7,1.68,1.38,5643.56,2297.82,6322.98,101.76,90.12,24.44
2016-08-15 09:15:55,64.9,62.29,69.95,395.85,393.14,396.27,228.37,228.99,227.1,13.27,12.21,14.02,6.43,7.08,7.22,14.75,14.11,15.77,1.8,1.86,1.39,1.8,1.86,1.39,5643.6,2297.84,6323.03,101.87,90.76,24.39
2016-08-15 09:16:00,68.91,66.52,73.81,395.59,393.06,395.73,227.85,228.61,227.47,13.99,13.07,14.84,6.53,7.22,7.25,15.43,14.93,16.52,1.89,1.95,1.42,1.89,1.95,1.42,5643.65,2297.86,6323.09,102.28,90.37,24.45
2016-08-15 09:16:05,69.78,67.37,74.67,395.1,392.66,395.41,227.65,228.25,227.34,14.41,13.53,15.29,6.68,7.35,7.36,15.89,15.4,16.97,1.81,2.05,1.63,1.81,2.05,1.63,5643.69,2297.88,6323.14,102.26,90.62,24.41
2016-08-15 09:16:10,77.35,74.84,81.92,394.8,392.83,395.1,227.34,228.26,227.38,16.42,15.61,17.33,7.15,7.76,7.7,17.91,17.43,18.96,1.77,2.05,1.74,1.77,2.05,1.74,5643.74,2297.89,6323.19,101.75,91.38,24.40
2016-08-15 09:16:15,71.94,69.96,76.96,395.46,393.06,395.52,227.7,228.64,227.4,15.36,14.47,16.21,6.85,7.55,7.52,16.82,16.32,17.87,1.97,1.98,1.43,1.97,1.98,1.43,5643.81,2297.91,6323.26,102.20,90.1,24.40
2016-08-15 09:16:20,68.89,66.86,73.85,395.58,393.58,395.68,227.7,228.82,227.68,14.36,13.57,15.29,6.8,7.41,7.38,15.88,15.46,16.98,1.79,1.8,1.33,1.79,1.8,1.33,5643.85,2297.93,6323.31,101.53,90.66,24.43
2016-08-15 09:16:25,67.55,64.68,72.21,395.64,393.62,395.81,227.51,229.57,227.26,13.89,13.1,14.73,6.63,7.24,7.2,15.39,14.97,16.4,1.91,1.95,1.41,1.91,1.95,1.41,5643.89,2297.95,6323.35,101.30,90.37,24.38
2016-08-15 09:16:30,65.2,62.85,70.11,396.04,393.6,396.43,228.21,228.85,227.86,13.68,12.72,14.54,6.46,7.2,7.22,15.13,14.61,16.24,1.86,1.96,1.44,1.86,1.96,1.44,5643.95,2297.97,6323.41,101.24,90.60,24.38
2016-08-15 09:16:35,61.78,59.49,66.98,396.1,393.52,396.26,228.15,228.93,227.72,12.71,11.87,13.73,6.44,7.17,7.13,14.25,13.86,15.47,1.67,1.71,1.64,1.67,1.71,1.64,5643.99,2297.98,6323.46,102.41,90.17,24.44
2016-08-15 09:16:40,59.82,57.56,65.09,396.32,394.1,396.5,228.23,229.13,228.04,12.12,11.26,13.12,6.31,7.02,7.05,13.67,13.27,14.89,1.84,1.89,1.4,1.84,1.89,1.4,5644.02,2298.0,6323.5,102.1,91.58,24.40
2016-08-15 09:16:45,59.38,57.48,64.67,395.44,393.13,395.44,227.64,228.69,227.39,12.11,11.18,12.99,6.26,6.92,6.93,13.54,13.15,14.72,1.74,1.79,1.33,1.74,1.79,1.33,5644.07,2298.02,6323.56,102.48,90.55,24.41
2016-08-15 09:16:50,59.37,57.65,64.59,396.29,393.59,396.35,228.26,229.04,227.71,11.98,11.21,12.97,6.29,6.92,6.89,13.53,13.17,14.69,1.67,1.64,1.33,1.67,1.64,1.33,5644.11,2298.03,6323.6,101.80,91.35,24.40
2016-08-15 09:16:55,59.51,57.9,64.83,395.55,393.33,395.44,227.59,228.81,227.51,12.08,11.25,13.06,6.24,7.01,6.96,13.59,13.26,14.8,1.85,1.89,1.43,1.85,1.89,1.43,5644.14,2298.05,6323.64,102.3,90.86,24.44
2016-08-15 09:17:00,59.67,58.03,64.88,395.09,392.82,395.1,227.44,228.45,227.26,12.08,11.28,13.6,6.26,6.96,6.94,13.61,13.25,14.74,1.79,1.92,1.54,1.79,1.92,1.54,5644.19,2298.07,6323.7,101.96,90.17,24.43
2016-08-15 09:17:05,59.64,58.04,64.83,395.91,393.53,396.04,228.228.88,227.69,12.05,11.29,13.04,6.3,7.01,6.95,13.59,13.29,14.78,1.85,1.97,1.49,1.85,1.97,1.49,5644.23,2298.08,6323.74,101.67,90.30,24.44

2016-08-15 09:17:10,59.81,57.85,64.77,395.68,393.12,395.75,227.89,228.68,227.46,12.11,11.3,13.03,6.3,6.96,6.99,13.66,13.27,14.78,1.77,1.87,1.38,1.77,1.87,1.38,5644.27,2298.1,6323.78,101.90,90.25,24.40

2016-08-15 09:17:15,59.86,57.84,64.75,395.87,393.41,395.92,227.97,228.83,227.61,12.11,11.28,12.99,6.27,6.9,6.93,13.63,13.22,14.72,1.67,1.67,1.34,1.67,1.67,1.34,5644.31,2298.12,6323.83,101.83,90.28,24.43

2016-08-15 09:17:20,59.7,57.7,64.61,396.18,393.39,396.27,228.22,228.92,227.64,12.1,11.25,12.96,6.33,6.95,7,13.65,13.22,14.73,1.77,1.82,1.36,1.77,1.82,1.36,5644.35,2298.14,6323.88,101.10,90.97,24.42

2016-08-15 09:17:25,59.72,57.64,64.79,395.61,393.43,395.68,227.96,228.94,227.25,12.07,11.22,12.94,6.34,6.96,7.01,13.63,13.2,14.72,1.72,1.87,1.58,1.72,1.87,1.58,5644.39,2298.15,6323.92,102.97,91.7,24.39

2016-08-15 09:17:30,59.77,57.51,64.85,395.98,393.43,396.13,228.29,229.03,227.3,12.09,11.2,12.96,6.27,6.93,6.99,13.62,13.17,14.72,1.67,1.7,1.62,1.67,1.7,1.62,5644.43,2298.17,6323.97,101.59,91.50,24.46

2016-08-15 09:17:35,59.86,57.62,64.85,395.72,393.3,395.84,228.08,228.92,227.21,12.14,11.21,12.99,6.24,6.89,6.95,13.65,13.16,14.73,1.69,1.69,1.32,1.69,1.69,1.32,5644.47,2298.19,6324.01,101.84,91.7,24.40

2016-08-15 09:17:40,59.95,57.66,64.94,395.11,392.63,395.18,227.73,228.55,226.82,12.15,11.23,13.03,6.28,6.99,7,13.68,13.23,14.79,1.68,1.62,1.5,1.68,1.62,1.5,5644.52,2298.21,6324.07,102.17,91.23,24.43

2016-08-15 09:17:45,59.79,57.65,65,395.61,393.26,395.67,227.96,228.9,227.16,12.1,11.17,12.97,6.29,6.98,7.04,13.64,13.17,14.75,1.68,1.65,1.32,1.68,1.65,1.32,5644.56,2298.22,6324.11,102.22,90.28,24.45

2016-08-15 09:17:50,59.13,57.17,64.27,394.37,392.24,394.38,227.18,228.2,226.61,11.96,11.13,12.86,6.21,6.83,6.85,13.48,13.07,14.57,1.81,1.86,1.36,1.81,1.86,1.36,5644.59,2298.24,6324.15,102.8,90.90,24.45

2016-08-15 09:17:55,61.1,58.99,66.15,395.06,392.04,395.42,227.67,228.99,226.22,12.17,11.33,13.03,6.28,6.99,6.96,13.7,13.31,14.77,1.69,1.79,1.67,1.69,1.79,1.67,5644.64,2298.26,6324.21,102.0,91.81,24.45

2016-08-15 09:18:00,63.71,61.46,68.56,394.69,391.59,394.85,227.38,228.76,225.94,12.87,11.98,13.68,6.37,7.04,7.04,14.36,13.9,15.39,1.71,1.63,1.44,1.71,1.63,1.44,5644.68,2298.27,6324.25,102.12,91.34,24.43

2016-08-15 09:18:05,74.24,71.92,78.93,393.72,391.51,393.67,226.53,228.57,225.69,15.29,14.6,16.19,6.9,7.51,7.35,16.78,16.42,17.78,1.92,1.96,1.45,1.92,1.96,1.45,5644.72,2298.29,6324.3,102.5,90.23,24.41

2016-08-15 09:18:10,72.73,69.88,77.02,394.36,392.26,394.74,227.07,228.89,226.24,15.23,14.35,16.6,7.8,7.47,7.4,16.67,16.18,17.63,1.96,2.06,1.61,1.96,2.06,1.61,5644.78,2298.31,6324.36,101.86,91.4,24.40

2016-08-15 09:18:15,70.44,68.05,75.32,394.34,391.79,394.42,227.05,228.77,225.92,14.64,13.85,15.48,6.76,7.37,7.29,16.13,15.69,17.11,1.85,1.78,1.69,1.85,1.78,1.69,5644.82,2298.32,6324.41,102.65,90.16,24.43

2016-08-15 09:18:20,68.63,66.23,73.4,394.9,392.67,395.09,227.33,229.22,226.42,14.23,13.41,15.05,6.59,7.21,7.16,15.68,15.23,16.66,1.79,2,1.67,1.79,2,1.67,5644.87,2298.34,6324.46,102.66,90.9,24.38

2016-08-15 09:18:25,67.26,65.13,72.1,395.04,391.84,395.18,227.63,228.93,226.05,13.87,13.15,14.79,6.61,7.26,7.12,15.37,15.03,16.41,1.85,1.76,1.48,1.85,1.76,1.48,5644.93,2298.36,6324.53,102.98,90.3,24.39

2016-08-15 09:18:30,66.06,63.92,70.76,394.49,391.45,394.66,227.29,228.63,225.85,13.66,12.91,14.48,6.54,7.06,7.03,15.14,14.71,16.1,1.86,1.75,1.5,1.86,1.75,1.5,5644.97,2298.38,6324.57,102.20,90.98,24.42

2016-08-15 09:18:35,62.6,60.35,67.54,394.93,392.76,394.82,227.43,228.6,226.82,13.12,13.81,6.36,7.03,7.06,14.47,13.99,15.51,1.92,1.97,1.49,1.92,1.97,1.49,5645.01,2298.39,6324.62,102.21,90.35,24.41

2016-08-15 09:18:40,60.38,58.19,65.26,395.14,392.25,395.43,227.95,228.3,226.79,12.38,11.55,13.25,6.31,6.88,6.92,13.89,13.44,14.95,1.73,1.69,1.62,1.73,1.69,1.62,5645.06,2298.41,6324.68,102.9,91.65,24.39

2016-08-15 09:18:45,59.14,57.28,64.41,395.35,392.66,395.3,227.81,228.66,226.85,12.02,11.18,12.93,6.17,6.85,6.86,13.51,13.11,14.64,1.8,1.82,1.41,1.8,1.82,1.41,5645.09,2298.43,6324.72,102.24,90.14,24.44

2016-08-15 09:18:50,58.54,56.69,63.73,395.23,392.63,395.37,227.84,228.51,226.93,11.83,11.01,12.76,6.17,6.81,6.82,13.34,12.95,14.46,1.73,1.64,1.56,1.73,1.64,1.56,5645.13,2298.44,6324.76,102.16,90.54,24.41

2016-08-15 09:18:55,58.26,56.37,63.3,394.4,392.07,394.25,227.15,228.22,226.46,11.71,10.95,12.64,6.23,6.84,6.82,13.26,12.91,14.36,1.79,1.78,1.41,1.79,1.78,1.41,5645.18,2298.46,6324.81,101.88,90.76,24.38

2016-08-15 09:19:00,58.41,56.38,63.18,395.14,392.6,395.21,227.73,228.53,226.86,11.78,10.94,12.6,6.14,6.72,6.78,13.29,12.84,14.31,1.76,1.66,1.61,1.76,1.66,1.61,5645.21,2298.48,6324.85,101.98,90.78,24.45

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2016-08-15 09:19:10,58.46,56.35,63.18,395.69,393.26,395.66,228.01,228.91,227.16,11.75,10.92,12.57,6.28,6.86,6.91,13.32,12.9,14.34,1.72,1.67,1.57,1.72,1.67,1.57,5645.29,2298.51,6324.95,102.70,90.47,24.38

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2016-08-15 10:16:55,58.91,56.71,64.33,397.33,394.77,397.37,228.99,230.39,227.5,11.83,11.05,12.82,6.24,6.99,6.92,13.37,13.08,14.56,1.83,1.8,1.75,1.83,1.8,1.75,5673.67,2310.37,6357.33,100.54,91.84,25.15
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2016-08-15 10:17:05,58.48,56.67,64.11,396.93,394.94,396.8,228.6,230.31,227.52,11.81,11.04,12.82,6.22,6.88,6.82,13.35,13.01,14.52,2.05,2.08,1.56,2.05,2.08,1.56,5673.75,2310.4,6357.43,100.84,91.10,25.9
2016-08-15 10:17:10,58.35,56.63,64.02,397.13,394.92,397.19,228.84,230.32,227.6,11.84,11.07,12.87,6.21,6.9,6.87,13.37,13.05,14.58,1.86,1.89,1.82,1.86,1.89,1.82,5673.78,2310.42,6357.47,100.50,90.49,25.11
2016-08-15 10:17:15,58.53,56.64,64.06,396.29,393.86,396.29,228.39,229.76,227.11,91,11.09,12.89,6.24,7.6,96,13.45,13.12,14.65,1.89,1.97,1.78,1.89,1.97,1.78,5673.82,2310.43,6357.51,100.65,90.54,25.15
2016-08-15 10:17:20,58.77,56.77,64.31,397.2,395.03,397.2,228.84,230.38,227.64,11.88,11.13,12.89,6.29,6.97,6.91,13.44,13.13,14.62,1.87,1.91,1.79,1.87,1.91,1.79,5673.87,2310.45,6357.57,100.28,91.33,25.8
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2016-08-15 10:27:15,58.54,57.13,64.08,395.45,393.12,395.6,227.78,229.25,226.79,11.8,11.07,12.79,6.23,6.91,6.84,13.35,13.05,14.51,1.8,1.9,1.68,1.8,1.9,1.68,5678.66,2312.46,6363.04,102.26,90.21,25.18
2016-08-15 10:27:20,58.47,56.97,63.97,395.56,393.18,395.67,227.83,229.33,226.8,11.81,11.04,12.75,6.2,6.89,6.84,13.34,13.01,14.47,1.81,1.69,1.49,1.81,1.69,1.49,5678.7,2312.48,6363.09,102.76,91.14,25.25
2016-08-15 10:27:25,58.52,56.83,63.94,395.69,393.59,395.75,227.81,229.56,226.95,11.8,11.03,12.75,6.21,6.9,6.84,13.33,13.01,14.47,1.79,1.91,1.68,1.79,1.91,1.68,5678.74,2312.49,6363.13,102.15,91.47,25.24
2016-08-15 10:27:30,58.65,56.84,63.95,395.12,393.17,395.15,227.46,229.23,226.71,11.84,11.02,12.79,6.19,6.97,6.89,13.36,13.04,14.53,1.89,1.98,1.56,1.89,1.98,1.56,5678.79,2312.51,6363.19,101.24,90.41,25.17
2016-08-15 10:27:35,58.31,56.89,63.85,395.52,392.73,395.86,227.89,229.17,226.72,11.78,11.02,12.74,6.23,6.94,6.87,13.33,13.02,14.47,1.75,1.7,1.66,1.75,1.7,1.66,5678.82,2312.53,6363.23,102.27,91.55,25.25
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2016-08-15 10:27:45,58.46,56.93,63.79,394.97,392.24,395.49,227.68,228.76,226.54,11.77,11.06,12.78,6.28,6.96,6.88,13.34,13.07,14.52,1.73,1.72,1.68,1.73,1.72,1.68,5678.91,2312.57,6363.32,101.27,91.42,25.21
2016-08-15 10:27:50,58.57,57.03,63.97,395.52,393.26,395.93,227.86,229.3,226.98,11.79,11.09,12.8,6.26,6.95,6.86,13.35,13.09,14.53,1.76,1.73,1.7,1.76,1.73,1.7,5678.94,2312.58,6363.36,101.45,90.74,25.21
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2016-08-15 10:28:05,58.44,56.9,64.09,395.21,392.64,395.48,227.67,229.11,226.56,12.08,11.33,13.07,6.25,6.91,6.85,13.6,13.27,14.76,1.75,1.68,1.49,1.75,1.68,1.49,5679.06,2312.63,6363.5,102.46,90.65,25.25
2016-08-15 10:28:10,58.62,56.81,64.03,394.57,392.4,394.85,227.27,228.78,226.42,12.85,12.08,13.8,6.37,7.04,6.97,14.34,13.98,15.46,1.76,1.65,1.62,1.76,1.65,1.62,5679.1,2312.65,6363.54,102.32,90.0,25.25
2016-08-15 10:28:15,61.19,59.15,66.43,395.17,392.96,395.61,227.67,229.1,226.8,12.4,11.56,13.41,6.24,7.06,6.94,13.88,13.54,15.1,1.77,1.67,1.69,1.77,1.67,1.69,5679.14,2312.67,6363.6,102.95,91.87,25.19
2016-08-15 10:28:20,62.94,61.07,68.27,394.85,392.55,395.18,227.46,228.89,226.55,12.06,11.23,13.08,6.21,7.03,6.93,13.57,13.25,14.8,1.78,1.78,1.78,1.78,1.78,5679.18,2312.68,6363.64,101.53,91.5,25.20
2016-08-15 10:28:25,60.33,58.73,66.04,394.72,392.61,394.78,227.19,229.22,226.45,11.84,11.13,12.96,6.22,6.97,6.84,13.37,13.13,14.65,1.95,2.04,1.56,1.95,2.04,1.56,5679.22,2312.7,6363.68,101.50,90.28,25.18
2016-08-15 10:28:30,59.44,57.67,65.17,394.74,392.95,394.95,227.19,229.06,226.69,12.54,11.8,13.55,6.29,7.06,6.92,14.03,13.75,15.22,1.93,2.03,1.61,1.93,2.03,1.61,5679.27,2312.72,6363.74,101.11,91.46,25.20
2016-08-15 10:28:35,59.12,57.41,64.78,394.26,391.82,394.72,226.86,229.52,225.52,13.16,12.34,14.09,6.44,7.19,7.09,14.66,14.28,15.77,1.91,1.96,1.47,1.91,1.96,1.47,5679.31,2312.73,6363.78,101.42,91.34,25.24
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2016-08-15 10:28:45,64.61,62.35,69.88,396.39,395.57,396.5,228.02,230.22,226.7,12.95,12.12,13.93,6.38,7.19,7.06,14.43,14.09,15.62,1.79,1.93,1.75,1.79,1.93,1.75,5679.39,2312.77,6363.88,101.21,91.69,25.14
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2016-08-15 10:28:55,62.4,60.69,68.01,396.51,394.57,396.57,228.3,230.11,227.42,12.14,11.42,13.15,6.35,7.06,6.94,13.7,13.42,14.87,1.98,2.04,1.55,1.98,2.04,1.55,5679.47,2312.8,6363.97,102.35,90.18,25.23
2016-08-15 10:29:00,60.87,59.04,66.33,396.46,394.45,396.7,228.37,229.97,227.47,11.89,11.25,12.98,6.36,7.08,6.91,13.48,13.29,14.71,1.91,2.01,1.6,1.91,2.01,1.6,5679.52,2312.82,6364.03,101.47,91.52,25.15
2016-08-15 10:29:05,59.55,58.21,65.2,397.1,394.21,397.43,228.97,230.09,227.42,11.84,11.18,12.9,6.34,7.03,6.91,13.43,13.2,14.64,1.84,1.69,1.54,1.84,1.69,1.54,5679.56,2312.83,6364.07,101.79,90.51,25.16

2016-08-15 10:29:10,59.12,57.57,64.56,396.7,394.06,397.03,228.56,229.63,227.73,11.86,11.14,12.88,6.32,7.69,13.44,13.16,14.63,1.81,1.67,1.61,1.81,1.67,1.61,5679.6,2312.85,6364.11,102.49,91.90,25.22
2016-08-15 10:29:15,58.84,57.4,64.28,395.88,393.13,396.34,228.14,229.05,227.32,11.87,11.08,12.85,6.24,6.98,6.93,13.41,13.1,14.6,1.76,1.74,1.69,1.76,1.74,1.69,5679.65,2312.87,6364.17,102.24,90.38,25.23
2016-08-15 10:29:20,58.7,57.2,64.1,396.26,393.33,396.55,228.35,229.3,227.32,11.8,11.07,12.84,6.24,6.97,6.89,13.35,13.08,14.57,1.74,1.63,1.63,1.74,1.63,1.63,5679.68,2312.89,6364.21,101.98,91.36,25.17
2016-08-15 10:29:25,58.68,57.01,64.1,396.26,394.02,396.36,228.08,229.57,227.6,11.78,11.07,12.84,6.27,7.02,6.9,13.34,13.11,14.58,1.76,1.66,1.47,1.76,1.66,1.47,5679.72,2312.9,6364.25,102.5,91.92,25.22
2016-08-15 10:29:30,58.57,56.99,64.09,396.47,394.17,396.7,228.28,229.64,227.73,11.75,11.05,12.79,6.27,6.99,6.89,13.32,13.08,14.52,1.89,1.87,1.42,1.89,1.87,1.42,5679.77,2312.92,6364.3,101.10,90.98,25.25
2016-08-15 10:29:35,58.51,57.01,64.02,396.45,394,396.56,228.23,229.62,227.61,11.8,11.06,12.83,6.23,7.6,91,13.35,13.09,14.58,1.96,2,1.53,1.96,2,1.53,5679.8,2312.94,6364.35,102.32,90.38,25.23
2016-08-15 10:29:40,58.49,57.05,63.96,395.53,393.11,395.62,227.7,229.06,227.12,11.77,11.05,12.81,6.29,7.02,6.92,13.35,13.09,14.56,1.94,2.01,1.56,1.94,2.01,1.56,5679.84,2312.95,6364.39,102.79,90.93,25.22

Priedas Nr.4

T-11 10 kW savų reikmių transformatoriaus matavimo metu gauti duomenys

Laikas,"Srovė fazė A, A","Srovė fazė B, A","Srovė fazė C, A","Itampa A-B, V","Itampa B-C, V","Itampa C-A, V","Itampa A-N, V","Itampa B-N, V","Itampa C-N, V","Aktyvioji galia fazė A, kW","Aktyvioji galia fazė B, kW","Aktyvioji galia fazė C, kW","Reaktyvioji galia fazė A, kVAr","Reaktyvioji galia fazė B, kVAr","Reaktyvioji galia fazė C, kVAr","Suminė galia fazė A, kVA","Suminė galia fazė B, kVA","Suminė galia fazė C, kVA","THD/thd Įtampos fazė A-N, %","THD/thd Įtampos fazė B-N, %","THD/thd Įtampos fazė C-N, %","THD/thd Įtampos fazė A-B, %","THD/thd Įtampos fazė B-C, %","THD/thd Įtampos fazė C-A, %","Bendra aktyvioji energija, kWh","Bendra reaktyvioji energija, kVArh","Suminė energija, kVAh","Apvių temperatūra, °C","Alyvos temperatūra, °C","Aplinkos temperatūra, °C"

2016-08-11 10:30:00,143.12,132.53,138.84,403.05,402.93,404.45,231.63,232.33,234.91,18.16,16.68,16.24,27.9,26.07,28.48,33.29,30.95,32.78,1.12,1.19,1.27,1.12,1.19,1.27,247113.23,234683.98,349477.57,95.89,83.42,23.10
2016-08-11 10:30:05,143.12,132.61,138.91,402.01,401.85,403.39,231.04,231.69,234.31,18.22,16.74,16.35,27.63,25.84,28.22,33.09,30.79,32.61,1.11,1.29,1.31,1.11,1.29,1.31,247113.31,234684.13,349477.76,95.74,83.80,23.12
2016-08-11 10:30:10,144.132.39,139.05,401.88,401.59,403.36,231.02,231.54,234.24,18.34,16.8,16.15,27.88,25.75,28.32,33.37,30.75,32.6,1.12,1.29,1.29,1.12,1.29,1.29,247113.39,234684.26,349477.92,95.61,83.26,23.11
2016-08-11 10:30:15,143.15,132.3,138.46,400.82,400.64,402.25,230.3,230.95,233.74,18.38,16.87,16.45,27.29,25.45,27.87,32.9,30.53,32.36,1.03,1.2,1.27,1.03,1.2,1.27,247113.49,234684.38,349478.08,96.77,83.79,23.11
2016-08-11 10:30:20,144.21,132.94,139.85,402.08,401.98,403.57,231.01,231.78,234.46,18.41,16.86,16.43,27.92,26.01,28.52,33.45,31.32,91,1.08,1.22,1.3,1.08,1.22,1.3,247113.57,234684.53,349478.24,96.71,83.17,23.10
2016-08-11 10:30:25,144.33,132.91,139.65,402.63,402.45,404.18,231.38,232.05,234.76,18.41,16.83,16.24,27.87,25.76,28.37,33.4,30.77,32.69,1.08,1.21,1.24,1.08,1.21,1.24,247113.65,234684.66,349478.4,95.21,83.64,23.10
2016-08-11 10:30:30,144.5,132.83,139.36,402.71,402.54,404.18,231.43,232.11,234.76,18.37,16.88,16.35,27.89,25.92,28.4,33.39,30.93,32.77,1.17,1.44,1.36,1.17,1.44,1.36,247113.74,234684.8,349478.56,95.83,83.52,23.13
2016-08-11 10:30:35,143.19,132.73,138.91,401.44,401.34,402.89,230.71,231.35,234.07,18.23,16.74,16.32,27.5,25.66,28.06,32.99,30.64,32.47,1.18,1.38,1.35,1.18,1.38,1.35,247113.82,234684.93,349478.72,95.22,83.4,23.10
2016-08-11 10:30:40,143.55,133.14,139.52,400.78,400.7,402.21,230.35,230.98,233.65,18.42,16.98,16.6,27.39,25.63,27.95,33.01,30.75,32.51,0.95,1.1,1.15,0.95,1.1,1.15,247113.92,234685.07,349478.88,96.24,83.54,23.11
2016-08-11 10:30:45,142.99,132.39,138.8,400.05,399.93,401.55,229.87,230.58,233.28,18.29,16.78,16.33,27.17,25.28,27.73,32.75,30.34,32.18,1.11,1.25,1.21,1.11,1.25,1.21,247114.234685.2,349479.04,95.68,83.38,23.10
2016-08-11 10:30:50,143.12,131.7,138.5,400.96,400.89,402.52,230.43,231.17,233.78,18.37,16.81,16.38,27.42,25.51,28.05,33.30,55,32.48,1.12,1.41,1.31,1.12,1.41,1.31,247114.08,234685.34,349479.2,96.24,83.33,23.12
2016-08-11 10:30:55,143.89,133.41,140.45,401.42,401.5,402.92,230.64,231.52,234.05,18.39,16.72,16.53,27.45,25.8,28.32,33.04,30.74,32.8,1.07,1.13,1.15,1.07,1.13,1.15,247114.18,234685.47,349479.36,96.73,83.11,23.10
2016-08-11 10:31:00,143.29,132.73,139.94,401.35,401.43,402.92,230.6,231.44,234.09,18.32,16.69,16.47,27.33,25.64,28.14,32.9,30.59,32.6,1.1,1.28,1.26,1.1,1.28,1.26,247114.26,234685.62,349479.52,95.34,83.73,23.11
2016-08-11 10:31:05,143.06,132.72,139.67,400.96,400.97,402.48,230.39,231.21,233.8,18.31,16.74,16.45,27.44,25.71,28.14,32.99,30.68,32.59,1.18,1.35,1.27,1.18,1.35,1.27,247114.34,234685.74,349479.68,95.85,83.86,23.10
2016-08-11 10:31:10,144.02,132.53,139.57,400.16,400.19,401.71,229.92,230.75,233.36,18.13,16.56,16.25,26.97,25.21,27.66,32.49,30.16,32.08,1.11,1.24,1.28,1.11,1.24,1.28,247114.43,234685.87,349479.84,96.53,83.86,23.15
2016-08-11 10:31:15,144.59,132.85,140.9,402.63,402.75,404.28,231.36,232.3,234.76,18.45,16.68,16.49,27.72,25.96,28.62,33.3,30.85,33.04,1.17,1.39,1.35,1.17,1.39,1.35,247114.51,234686.02,349480.96,28.83,82,23.11
2016-08-11 10:31:20,143.64,132.84,140.58,402.51,402.66,404.16,231.3,232.24,234.68,18.36,16.6,16.46,27.62,25.93,28.56,33.17,30.78,32.96,1.02,1.11,1.2,1.02,1.11,1.2,247114.59,234686.16,349480.16,96.9,83.79,23.15
2016-08-11 10:31:25,142.1,130.96,138.58,402.36,402.46,403.91,231.18,232.12,234.59,18.27,16.52,16.37,27.77,26.07,28.69,33.24,30.87,33.03,1.01,1.17,1.25,1.01,1.17,1.25,247114.69,234686.29,349480.32,95.88,83.3,23.11
2016-08-11 10:31:30,143.47,132.33,140.34,402.02,402.26,403.81,231.07,231.95,234.5,18.56,16.63,16.53,27.57,25.82,28.62,33.23,30.72,33.05,1.28,1.49,1.45,1.28,1.49,1.45,247114.77,234686.43,349480.48,95.16,83.53,23.12
2016-08-11 10:31:35,142.42,131.17,138.77,400.76,400.84,402.46,230.34,231.14,233.71,18.38,16.59,16.4,27.34,25.59,28.25,32.94,30.5,32.67,1.24,1.41,1.33,1.24,1.41,1.33,247114.85,234686.56,349480.64,96.69,83.23,23.12
2016-08-11 10:31:40,142.87,132.02,139.15,398.94,398.87,400.46,229.25,230.02,232.59,18.32,16.68,16.25,27.4,25.47,28.07,32.96,30.45,32.44,1.1,1.21,1.1,1.21,247114.94,234686.69,349480.8,95.1,83.47,23.13
2016-08-11 10:31:45,140.22,130.64,137.11,400.53,400.71,402.04,230.58,230.15,234.18,3,16.56,16.47,26.48,24.9,27.42,32.19,29.9,31.99,1.2,1.46,1.37,1.2,1.46,1.37,247115.02,234686.83,349480.96,96.1,83.31,23.15
2016-08-11 10:31:50,140.97,131.41,138.36,400.24,400.37,401.75,230.44,229.94,233.82,18.4,16.61,16.6,27.13,25.62,28.18,32.78,30.54,32.7,1.22,1.45,1.36,1.22,1.45,1.36,247115.12,234686.96,349481.12,96.63,83.60,23.14
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2016-08-11 10:32:00,140.84,131.08,138.7,397.93,398.21,399.54,229.13,228.59,232.63,18.35,16.43,16.51,26.42,24.93,27.58,32.16,29.86,32.14,1.08,1.31,1.27,1.08,1.31,1.27,247115.28,234687.22,349481.44,95.86,83.19,23.16
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2016-08-11 10:35:10,236.57,225.42,229.83,400.66,400.83,402.33,230.84,229.88,234.33,40.82,38.64,38.99,30.53,28.96,31.78,50.98,48.29,50.3,1.27,1.51,1.38,1.27,1.51,1.38,247119.41,234692.53,349488.26,96.92,83.66,23.15
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2016-08-11 11:14:15,142.51,131.72,140.46,399.06,399.31,400.8,231.06,230.21,231.08,18.42,16.71,16.25,27.08,25.06,27.75,32.75,30.12,32.16,1.26,1.48,1.42,1.26,1.48,1.42,247179.73,234758.38,349579.62,96.43,84.35,23.40
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2016-08-11 11:15:10,142.48,131.46,140.3,399.62,399.88,401.38,231.41,230.53,231.41,18.72,16.91,16.51,27.26,25.21,28.02,33.07,30.35,32.52,1.36,1.57,1.52,1.36,1.57,1.52,247180.67,234759.86,349581.38,95.13,84.3,23.57
2016-08-11 11:15:15,143.17,132.34,141.49,401.74,402.07,403.61,232.64,231.86,232.62,18.49,16.6,16.19,27.78,25.67,28.58,33.37,30.57,32.85,1.46,1.61,1.6,1.46,1.61,1.6,247180.75,234759.98,349581.54,95.53,84.88,23.57
2016-08-11 11:15:20,189.26,177.02,184.05,399.88,400.1,401.78,231.63,230.68,231.54,29.8,27.82,27.34,28.59,26.24,29.22,41.3,38.24,40.02,1.41,1.61,1.53,1.41,1.61,1.53,247180.85,234760.13,349581.73,95.27,84.97,23.57
2016-08-11 11:15:25,214.68,202.49,208.36,399.59,399.91,401.49,231.44,230.57,231.41,36.75,34.75,34.42,29.52,27.23,30.2,47.14,44.15,45.79,1.25,1.4,1.49,1.25,1.4,1.49,247181.02,234760.27,349581.95,96.5,84.55,23.55
2016-08-11 11:15:30,247.02,235.93,240.85,397.75,398.1,399.58,230.39,229.44,230.36,48.79,46.92,46.63,31.39,29.14,31.89,58.01,55.23,56.49,1.23,1.4,1.38,1.23,1.4,1.38,247181.23,234760.42,349582.21,95.51,84.6,23.51
2016-08-11 11:15:35,278.48,267.59,271.52,397,397.35,398.83,229.86,228.94,230.11,50.9,49.04,48.87,31.93,29.67,32.43,60.09,57.32,58.65,1.34,1.52,1.51,1.34,1.52,1.51,247181.49,234760.58,349582.5,96.63,84.92,23.49
2016-08-11 11:15:40,301.93,291.54,294.87,396.24,396.54,398,229.4,228.45,229.66,53.37,51.63,51.4,32.25,29.98,32.63,62.35,59.7,60.89,1.27,1.48,1.47,1.27,1.48,1.47,247181.76,234760.74,349582.82,96.49,84.62,23.55
2016-08-11 11:15:45,268.5,258.14,261.7,395.32,395.61,397.08,228.89,227.88,229.15,57.12,55.34,55.09,33.38,31.04,33.67,66.15,63.45,64.56,1.3,1.54,1.51,1.3,1.54,1.51,247182.03,234760.9,349583.14,96.89,84.97,23.54
2016-08-11 11:15:50,254.87,243.54,247.95,397.94,398.27,399.79,230.39,229.45,230.7,50.45,48.56,48.26,32.7,30.35,33.13,60.12,57.27,58.54,1.36,1.59,1.57,1.36,1.59,1.57,247182.29,234761.06,349583.42,95.20,84.1,23.53
2016-08-11 11:15:55,254.62,240.88,247.56,398.42,398.83,400.36,230.66,229.78,231.02,50.88,48.82,48.67,32.07,29.74,32.7,60.14,57.16,58.64,1.35,1.6,1.56,1.35,1.6,1.56,247182.53,234761.22,349583.74,96.69,84.65,23.52
2016-08-11 11:16:00,238.98,227.96,232.83,399.05,399.35,400.85,230.99,230.15,231.28,46.85,45.04,44.75,31.39,29.15,31.88,56.39,53.65,54.95,1.41,1.62,1.59,1.41,1.62,1.59,247182.77,234761.36,349584.95,51.84,70.23,47
2016-08-11 11:16:05,256.2,245.75,249.73,399.09,399.37,400.81,230.98,230.16,231.29,44.67,42.97,42.72,30.88,28.75,31.36,54.3,51.7,52.99,1.33,1.58,1.54,1.33,1.58,1.54,247182.99,234761.52,349584.29,96.93,84.24,23.46
2016-08-11 11:16:10,230.8,220.53,225.09,397.49,397.74,399.19,230.06,229.2,230.37,44.37,42.67,42.42,30.51,28.43,30.97,53.84,51.28,52.53,1.27,1.52,1.48,1.27,1.52,1.48,247183.23,234761.66,349584.54,96.53,84.69,23.48
2016-08-11 11:16:15,233.19,222.77,227.38,396.74,397.05,398.48,229.63,228.76,230.46,97.45,19.45,06.30,7.28,64.31,21.56,11.53,5.54,81,1.25,1.5,1.48,1.25,1.5,1.48,247183.44,234761.82,349584.83,97.38,84.38,23.58
2016-08-11 11:16:20,235.68,225.27,229.69,396.63,396.86,398.29,229.57,228.67,229.85,43.73,42.1,41.84,30.15,28.06,30.58,53,11.50,6.51,83,1.2,1.44,1.41,1.2,1.44,1.41,247183.65,234761.97,349585.09,96.88,84.16,23.58
2016-08-11 11:16:25,218.33,208.09,212.53,395.62,395.85,397.25,229.08,227.92,229.34,45.6,43.86,43.66,30.24,28.19,30.7,54.72,52.14,53.37,1.32,1.48,1.48,1.32,1.48,1.48,247183.87,234762.11,349585.34,97.63,84.47,23.58
2016-08-11 11:16:30,217.34,207.08,212.24,398.2,398.44,399.77,230.29,229.49,230.98,40.8,39.12,39.04,29.98,28.14,30.54,50.63,48.19,49.57,1.14,1.31,1.3,1.14,1.31,1.3,247184.06,234762.26,349585.6,97.21,84.75,23.59
2016-08-11 11:16:35,212.4,202.89,207.13,398.42,398.75,400.230.33,229.6,231.27,38.01,36.39,36.32,29.3,27.55,29.94,47.99,45.64,47.07,1.12,1.35,1.3,1.12,1.35,1.3,247184.26,234762.4,349585.82,96.44,84.50,23.57
2016-08-11 11:16:40,220.78,211.19,214.83,398.46,398.66,400.03,230.39,229.56,231.24,41.18,39.58,39.33,29.74,27.85,30.22,50.79,48.39,49.6,1.12,1.29,1.28,1.12,1.29,1.28,247184.45,234762.54,349586.08,97.38,84.73,23.47
2016-08-11 11:16:45,214.56,205.75,209.25,397.67,397.84,399.15,229.86,229.02,230.87,42.53,41.05,40.89,30.08,28.25,30.51,52.1,49.83,51.01,1.27,1.46,1.45,1.27,1.46,1.45,247184.66,234762.69,349586.34,96.53,84.65,23.45
2016-08-11 11:16:50,216.2,206.79,210.32,397.01,397.15,398.51,229.54,228.57,230.49,40.79,39.26,39.29,57.27,67.30,01.50,39.48,03.49,21,1.31,1.43,1.44,1.31,1.43,1.44,247184.85,234762.83,349586.56,96.93,84.53,23.59
2016-08-11 11:16:55,226.63,217.06,220.54,396.16,396.32,397.68,229.14,228.14,229.88,44.95,43.4,43.18,30.04,28.14,30.44,54.07,51.72,52.83,1.19,1.34,1.33,1.19,1.34,1.33,247185.06,234762.98,349586.82,96.70,84.20,23.51
2016-08-11 11:17:00,221.75,211.67,216.02,397.4,397.6,398.93,229.79,228.87,230.67,39.34,37.78,37.56,29.52,27.7,30.04,49.19,46.85,48.09,1.26,1.36,1.38,1.26,1.36,1.38,247185.26,234763.12,349587.07,97.89,84.87,23.51
2016-08-11 11:17:05,213.9,203.74,207.81,398.66,398.85,400.28,230.6,229.69,231.27,37.52,35.86,35.54,29.22,27.19,29.72,47.55,45.01,46.33,1.23,1.38,1.38,1.23,1.38,1.38,247185.46,234763.26,349587.33,97.11,84.87,23.51
2016-08-11 11:17:10,223.21,213.16,217.1,398.36,398.56,399.96,230.43,229.52,231.08,42.5,40.84,40.6,30.16,28.08,30.56,52.11,49.57,50.82,1.26,1.4,1.39,1.26,1.4,1.39,247185.65,234763.42,349587.55,96.61,84.75,23.48
2016-08-11 11:17:15,216.12,205.98,210.09,397.84,398.01,399.4,230.13,229.19,230.77,38.88,37.3,37.29,34.27,34.29,8.48,71,46.25,47.5,1.14,1.24,1.33,1.14,1.24,1.33,247185.84,234763.57,349587.81,96.35,84.24,23.54
2016-08-11 11:17:20,228.38,218.31,222.3,397.96,398.17,399.57,230.21,229.26,230.89,39.38,37.74,37.49,29.42,27.45,29.92,49.16,46.67,47.97,1.2,1.31,1.3,1.2,1.31,1.3,247186.03,234763.71,349588.03,97.18,84.77,23.56
2016-08-11 11:17:25,209.54,199.87,204.11,397.15,397.34,398.68,229.63,228.54,230.72,40.62,38.98,38.89,29.48,27.7,30.06,50.19,47.82,49.15,1.25,1.34,1.37,1.25,1.34,1.37,247186.22,234763.86,349588.29,97.53,84.70,23.54

2016-08-11 11:17:30,205.02,196.12,199.49,397.04,397.16,398.49,229.54,228.46,230.62,35.47,33.93,33.68,28.56,26.75,29.07,45.53,43.21,44.49,1.28,1.38,1.38,1.28,1.38,1.38,247186.42,234764.349588.51,96.33,84.2,23.56
2016-08-11 11:17:35,214.47,205.32,208.95,397.4,397.56,398.85,229.73,228.68,230.84,36.21,34.68,34.52,28.66,26.96,29.2,46.18,43.93,45.21,1.19,1.33,1.33,1.19,1.33,1.33,247186.59,234764.13,349588.74,96.30,84.91,23.60
2016-08-11 11:17:40,200.56,190.73,195.28,399.19,399.35,400.73,230.78,229.79,231.84,37.88,36.25,36.08,29.42,27.58,29.98,47.96,45.55,46.91,1.27,1.39,1.39,1.27,1.39,1.39,247186.77,234764.27,349588.96,97.40,84.85,23.60
2016-08-11 11:17:45,204.84,195.07,199.3,398.86,399.06,400.45,230.61,229.6,231.68,38.34,36.63,36.51,29.51,27.65,30.15,48.38,45.89,47.35,1.3,1.4,1.4,1.3,1.4,1.4,247186.96,234764.42,349589.22,97.22,84.22,23.60
2016-08-11 11:17:50,221.06,210.95,215.29,398.98,399.16,400.54,230.7,229.65,231.72,38.34,36.67,36.49,29.42,27.52,30.01,48.33,45.85,47.25,1.19,1.36,1.37,1.19,1.36,1.37,247187.15,234764.56,349589.44,96.54,84.39,23.60
2016-08-11 11:17:55,212.43,202.28,206.74,397.69,397.93,399.29,229.99,228.86,231.04,42.17,40.42,40.31,29.77,27.91,30.38,51.62,49.11,50.47,1.13,1.25,1.28,1.13,1.25,1.28,247187.34,234764.72,349589.7,96.77,84.70,23.52
2016-08-11 11:18:00,220.18,210.45,214.42,397.84,398.08,399.45,230.16,229.14,230.86,39.15,37.47,37.22,29.53,27.56,30.09,49.03,46.52,47.87,1.13,1.29,1.28,1.13,1.29,1.28,247187.54,234764.86,349589.95,97.89,84.95,23.50
2016-08-11 11:18:05,225.96,216.14,219.82,396.25,396.45,397.81,229.23,228.18,229.94,40.69,39.05,38.8,29.11,27.12,29.58,50.03,47.55,48.79,1.21,1.34,1.32,1.21,1.34,1.32,247187.74,234765.01,349590.18,96.42,84.60,23.56
2016-08-11 11:18:10,235.19,224.44,228.24,398.34,398.47,400.01,230.46,229.44,231.1,40.52,38.77,38.47,29.96,27.83,30.45,50.39,47.73,49.07,1.14,1.32,1.34,1.14,1.32,1.34,247187.94,234765.15,349590.43,96.51,84.14,23.47
2016-08-11 11:18:15,218.85,208.18,213.33,400.12,400.44,401.81,231.45,230.59,232.17,41.36,39.61,39.51,30.01,28.05,30.64,51.1,48.54,49.99,1.21,1.33,1.34,1.21,1.33,1.34,247188.14,234765.3,349590.69,97.20,84.91,23.51
2016-08-11 11:18:20,219.52,208.76,214.75,399.81,400.2,401.55,231.29,230.42,232.03,39.45,37.54,37.56,30.08,28.3,30.97,49.61,47.01,48.68,1.21,1.37,1.34,1.21,1.37,1.34,247188.34,234765.44,349590.94,97.38,84.26,23.53
2016-08-11 11:18:25,230.65,220.53,226.399,88,400.31,401.55,231.17,230.23,232.43,39.86,37.92,38.17,29.76,28.12,30.72,49.75,47.21,49.1,1.19,1.33,1.35,1.19,1.33,1.35,247188.53,234765.58,349591.17,96.42,84.34,23.50
2016-08-11 11:18:30,192.2,182.41,188.55,399.24,399.77,400.95,231.25,229.72,231.85,32.05,30.19,30.31,28.71,27.15,29.67,43.03,40.6,42.41,1.12,1.29,1.29,1.12,1.29,1.29,247188.72,234765.73,349591.42,97.48,84.18,23.55
2016-08-11 11:18:35,147.98,138.72,145.71,399.35,399.66,400.95,231.18,229.75,231.88,21.58,19.89,19.71,27.09,25.38,27.89,34.63,32.25,34.15,1.09,1.2,1.29,1.09,1.2,1.29,247188.86,234765.87,349591.62,97.53,84.30,23.48
2016-08-11 11:18:40,144.18,134.97,142.96,400.7,401.08,402.25,231.88,230.64,232.64,19.37,17.55,17.53,27.32,25.73,28.34,33.49,31.15,33.32,1.14,1.23,1.27,1.14,1.23,1.27,247188.96,234766.02,349591.78,97.34,84.67,23.47
2016-08-11 11:18:45,142.9,133.95,141.88,400.99,401.4,402.55,231.93,230.75,233.02,18.68,16.84,16.85,27.28,25.75,28.33,33.06,30.77,32.96,1.12,1.25,1.28,1.12,1.25,1.28,247189.06,234766.14,349591.94,96.53,84.33,23.50
2016-08-11 11:18:50,142.56,133.66,141.37,401.28,401.69,402.83,232.18,231.05,232.95,18.73,16.92,16.95,27.29,25.8,28.35,33.1,30.85,33.03,1.16,1.26,1.28,1.16,1.26,1.28,247189.14,234766.29,349592.1,97.14,84.51,23.56
2016-08-11 11:18:55,142.29,133.38,141.1,401.34,401.69,402.85,232.15,230.96,233.12,18.33,16.61,16.57,27.27,25.76,28.24,32.86,30.66,32.74,1.04,1.15,1.22,1.04,1.15,1.22,247189.22,234766.42,349592.26,96.41,84.7,23.49
2016-08-11 11:19:00,142.44,133.51,140.96,400.69,401.02,402.21,231.84,230.64,232.62,18.37,16.69,16.56,27.39,25.79,28.26,32.98,30.72,32.76,1.12,1.24,1.26,1.12,1.24,1.26,247189.31,234766.56,349592.42,96.79,84.49,23.52
2016-08-11 11:19:05,143.79,134.17,142.23,401.62,401.92,403.15,232.3,231.1,233.3,18.5,16.73,16.6,27.74,26.08,28.69,33.35,30.99,33.15,1.21,1.33,1.32,1.21,1.33,1.32,247189.39,234766.69,349592.58,96.93,84.31,23.54
2016-08-11 11:19:10,143.25,132.4,141.56,401.72,402.05,403.35,232.48,231.24,233.21,18.42,16.51,16.4,27.53,25.81,28.56,33.12,30.64,32.93,1.27,1.39,1.4,1.27,1.39,1.4,247189.49,234766.83,349592.74,97.94,84.51,23.56
2016-08-11 11:19:15,143.23,133.21,141.56,401.8,402.08,403.51,232.8,231.19,233.12,18.46,16.64,16.36,27.68,25.81,28.55,33.27,30.71,32.91,1.13,1.24,1.31,1.13,1.24,1.31,247189.57,234766.96,349592.9,96.62,84.96,23.51
2016-08-11 11:19:20,143.15,133.34,141.81,402.24,402.6,403.93,233.03,231.47,233.4,18.5,16.61,16.49,27.6,25.86,28.6,33.23,30.74,33.01,1.22,1.34,1.38,1.22,1.34,1.38,247189.65,234767.1,349593.09,97.36,84.60,23.57
2016-08-11 11:19:25,142.95,133.14,141.65,401.49,401.85,403.15,232.59,231.01,232.98,18.67,16.78,16.62,27.71,25.94,28.69,33.41,30.9,33.16,1.22,1.36,1.4,1.22,1.36,1.4,247189.74,234767.23,349593.25,97.90,84.48,23.52
2016-08-11 11:19:30,142.6,132.56,141.12,401.87,402.21,403.44,232.72,231.29,233.16,18.36,16.45,16.31,27.52,25.77,28.52,33.08,30.57,32.86,1.27,1.32,1.37,1.27,1.32,1.37,247189.82,234767.38,349593.41,96.15,85.5,23.45
2016-08-11 11:19:35,143.52,133.39,142.05,401.31,401.66,402.94,232.51,230.92,232.82,18.49,16.59,16.42,27.76,25.96,28.74,33.35,30.81,33.1,1.28,1.36,1.4,1.28,1.36,1.4,247189.9,234767.5,349593.57,96.46,85.99,23.53
2016-08-11 11:19:40,143.05,132.12,140.9,401.47,401.79,403.1,232.58,231.01,232.91,18.46,16.55,16.31,27.32,25.45,28.25,32.97,30.35,32.63,1.33,1.43,1.45,1.33,1.43,1.45,247190.234767.65,349593.73,97.33,85.20,23.53
2016-08-11 11:19:45,143.13,132.02,140.92,401.71,402.06,403.42,232.73,231.16,233.1,18.61,16.74,16.47,27.77,25.88,28.66,33.43,30.83,33.06,1.23,1.37,1.35,1.23,1.37,1.35,247190.08,234767.78,349593.89,97.80,85.71,23.50
2016-08-11 11:19:50,143.24,132.61,141.2,401.36,401.63,403.01,232.44,230.97,232.9,18.46,16.58,16.37,27.63,25.81,28.57,33.23,30.67,32.93,1.15,1.28,1.32,1.15,1.28,1.32,247190.18,234767.92,349594.05,96.7,85.36,23.50
2016-08-11 11:19:55,142.32,130.96,139.85,402.07,402.42,403.83,232.98,231.64,233.02,18.57,16.68,16.34,27.72,25.7,28.55,33.36,30.64,32.89,1.15,1.34,1.32,1.15,1.34,1.32,247190.26,234768.05,349594.21,97.14,85.14,23.48

Priedas Nr.5

Savų reikmių transformatorių fazinių įtampų A-N duomenys

Įtampa A-N, V- T-11 10kW	Voltage A-N, V - T-21 25kW	Voltage B-N, V - T-22 50kW
227,3	226,11	214,16
227,63	226,15	214,22
227,72	226,22	214,31
227,8	226,38	214,36
227,81	226,44	214,37
227,97	226,45	214,47
227,99	226,49	214,51
228,12	226,51	214,59
228,15	226,53	214,65
228,16	226,55	214,86
228,19	226,62	214,89
228,23	226,65	214,9
228,24	226,67	214,97
228,27	226,68	215
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