

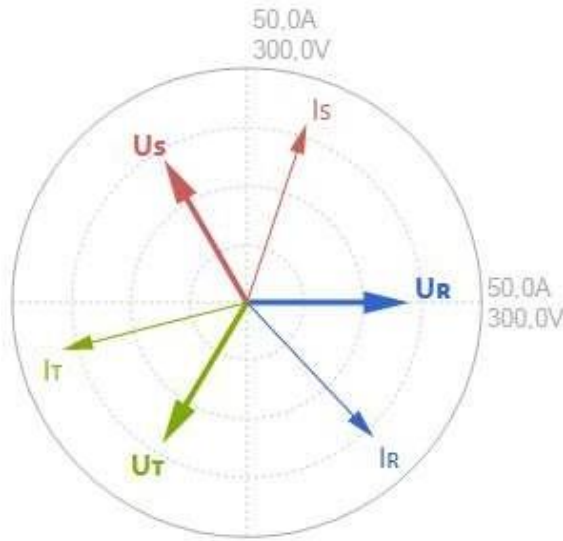
# Tıp Fakültesi – Morfoloji Ana Kesici KS1 KS3 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	363,90	364,95	364,47

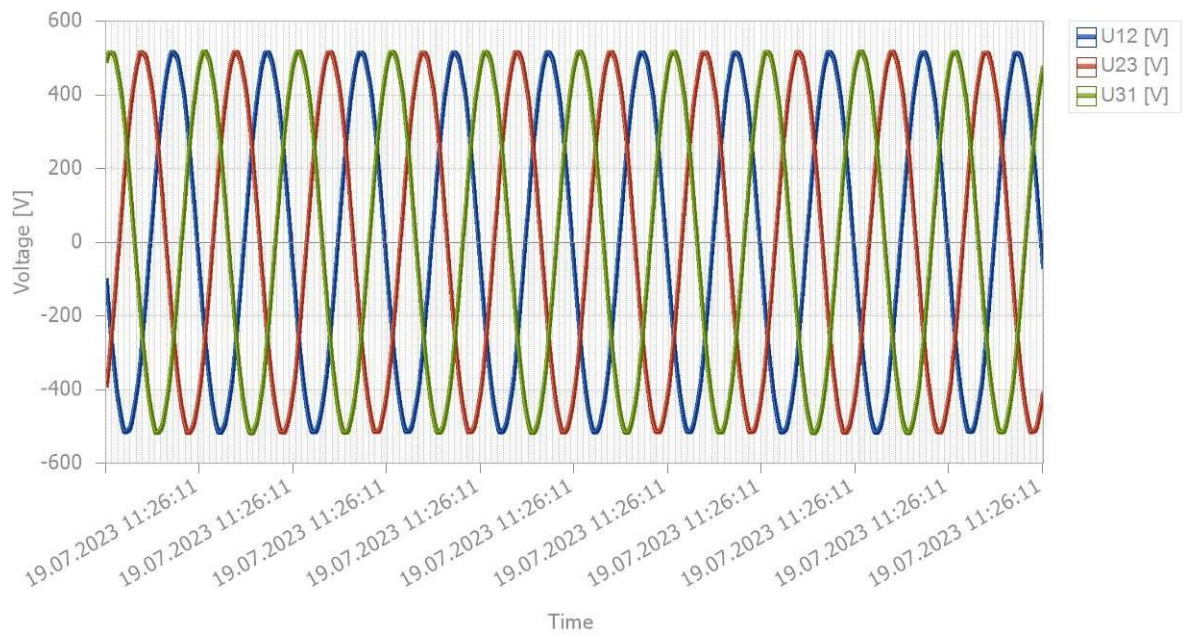
Item	R	S	T	N	Tot
Current [A]	39,72	40,47	40,92	0,89	
Load Factor [%]	96,20	98,03	99,12	2,16	
Active Power [kW]					17,54
Apparent Power [kVA]					25,47
Reactive Power [kvar]					18,55
Power Factor [%]					68,59
Frequency [Hz]					50,01

## Vector Diagram

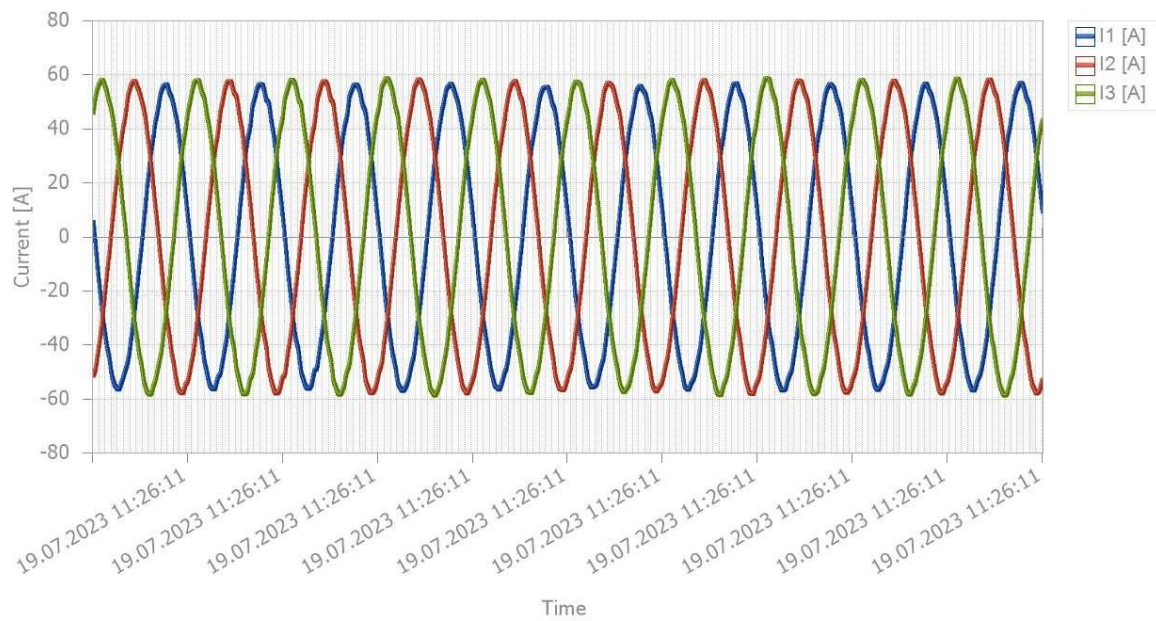


Item	Value	Angle
UR	207,68 V	0,00 °
US	211,85 V	120,03 °
UT	210,70 V	-120,85 °
IR	39,57 A	-46,82 °
IS	40,24 A	71,62 °
IT	40,56 A	-165,65 °

## Voltage Waveform



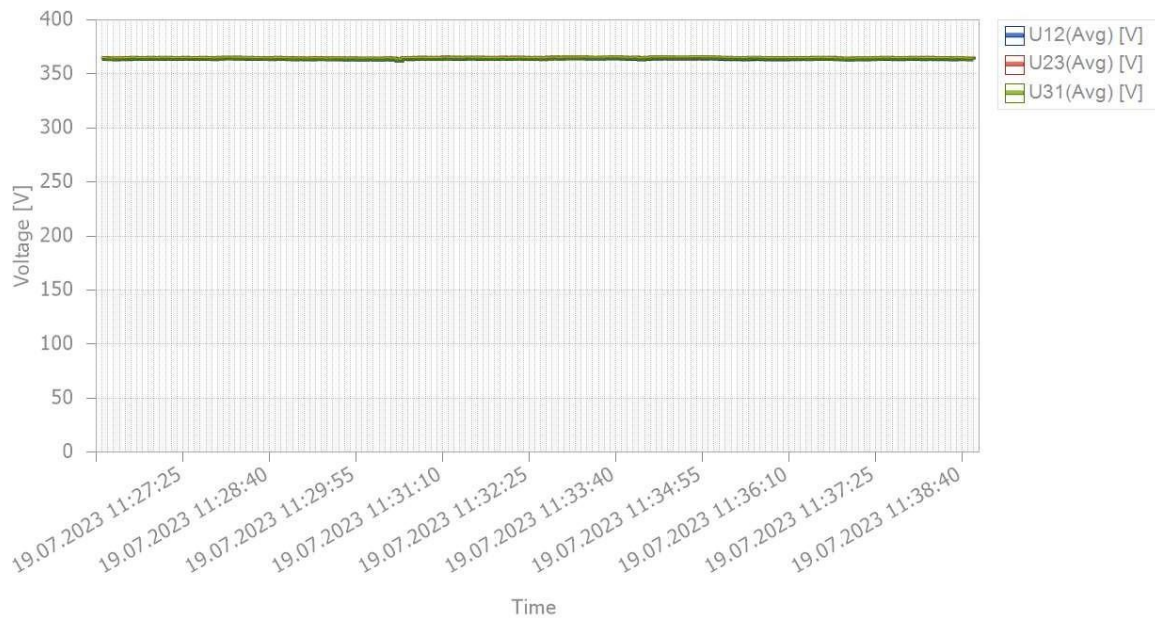
## Current Waveform



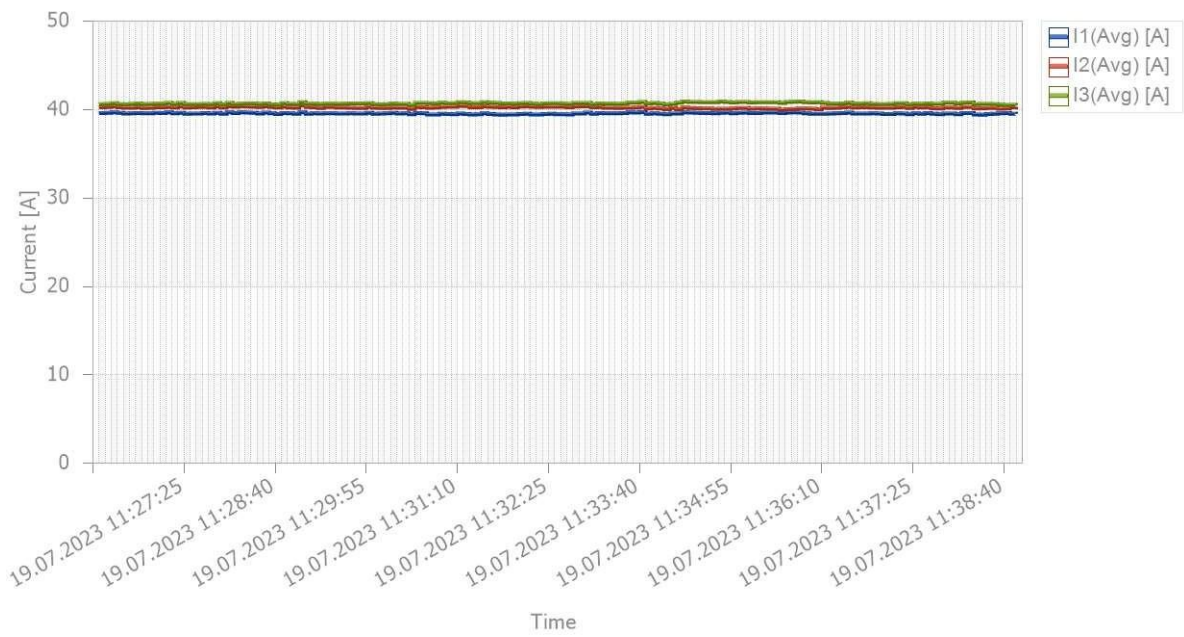
Item	Min	Time	Max	Time	Avg
UR [V]	206,94	19.07.2023 11:30:30	208,92	19.07.2023 11:34:45	207,98
US [V]	211,42	19.07.2023 11:35:30	212,50	19.07.2023 11:27:59	212,06
UT [V]	210,36	19.07.2023 11:30:30	211,73	19.07.2023 11:32:45	211,22
UR-S [V]	362,49	19.07.2023 11:30:30	364,47	19.07.2023 11:32:59	363,90
US-T [V]	363,45	19.07.2023 11:30:30	365,54	19.07.2023 11:34:45	364,95
UT-R [V]	363,00	19.07.2023 11:30:30	365,21	19.07.2023 11:34:45	364,47
IR [A]	39,43	19.07.2023 11:31:45	39,72	19.07.2023 11:33:40	39,58
IS [A]	40,00	19.07.2023 11:35:35	40,47	19.07.2023 11:28:59	40,24
IT [A]	40,51	19.07.2023 11:38:50	40,92	19.07.2023 11:34:45	40,71
IN [A]	0,87	19.07.2023 11:30:25	0,89	19.07.2023 11:33:55	0,88
P [kW]	17,29	19.07.2023 11:33:59	17,54	19.07.2023 11:28:59	17,39
Sv [kVA]	25,16	19.07.2023 11:30:30	25,47	19.07.2023 11:33:40	25,35
N [kvar]	18,23	19.07.2023 11:30:30	18,55	19.07.2023 11:34:20	18,45
PF	0,68	19.07.2023 11:34:10	0,69	19.07.2023 11:28:59	0,69
f [Hz]	49,98	19.07.2023 11:38:10	50,05	19.07.2023 11:28:30	50,01

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

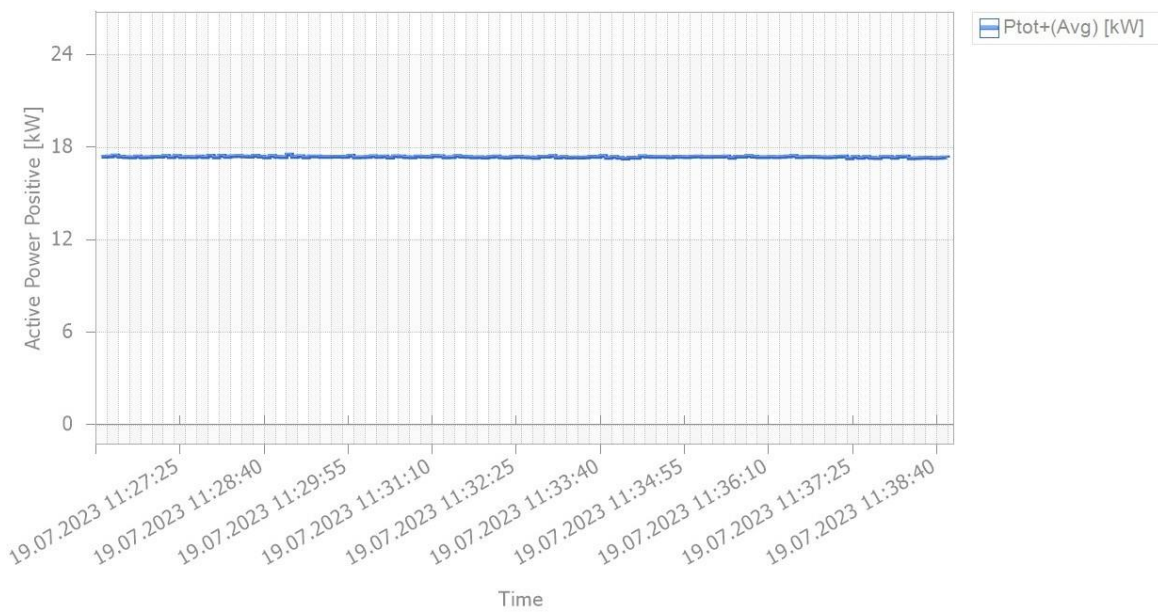
### Voltage Time Plot



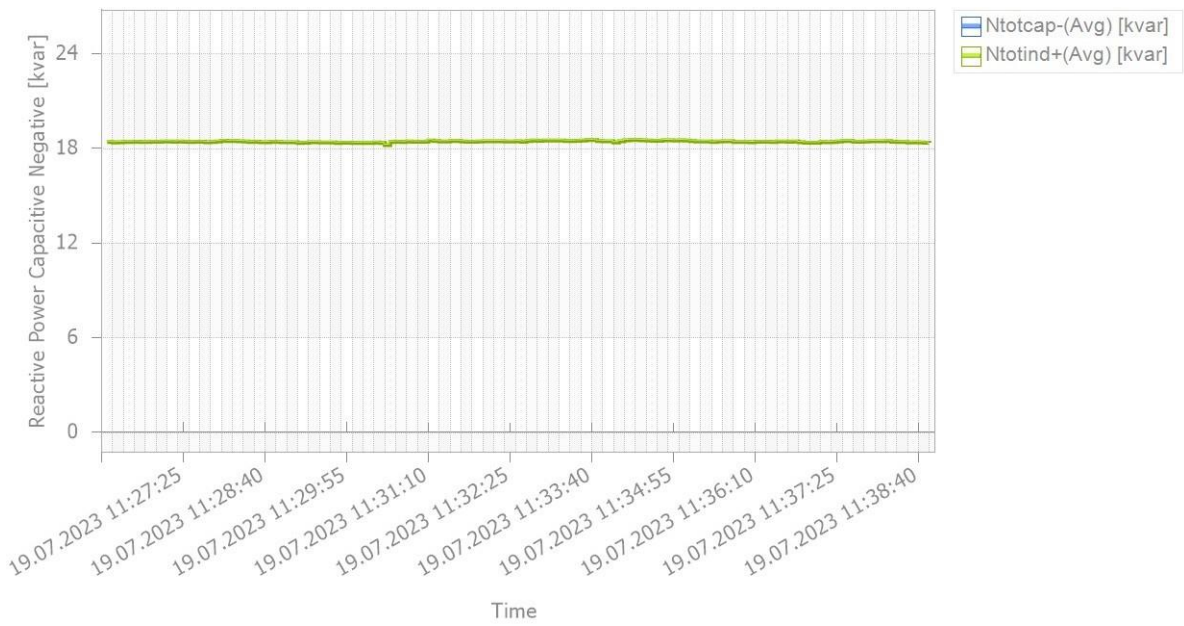
## Current Time Plot



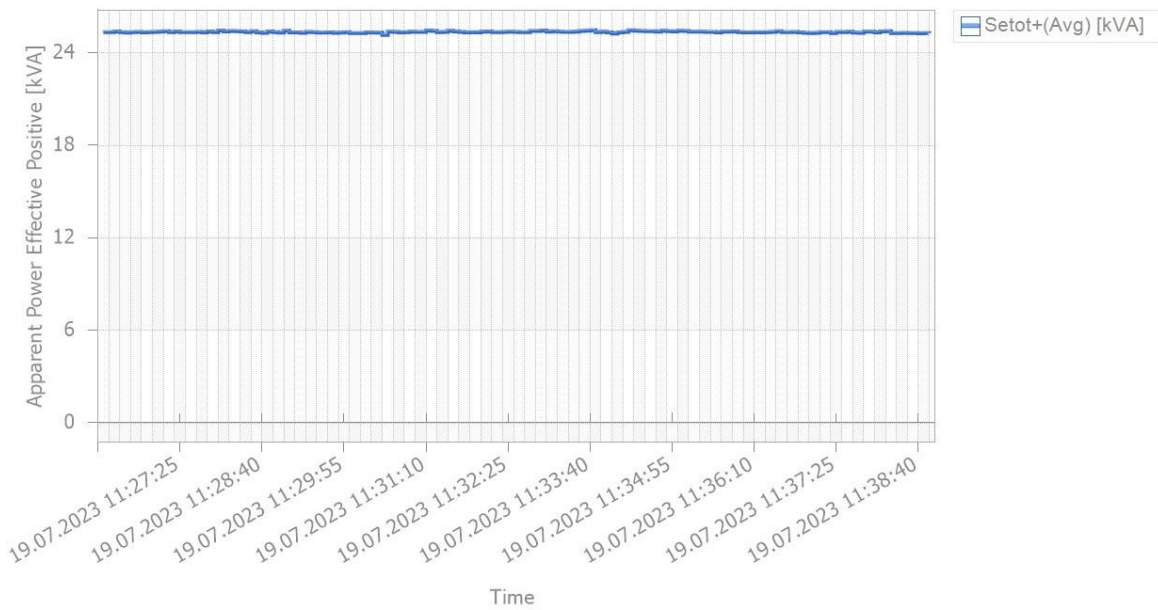
## Active Power Time Plot



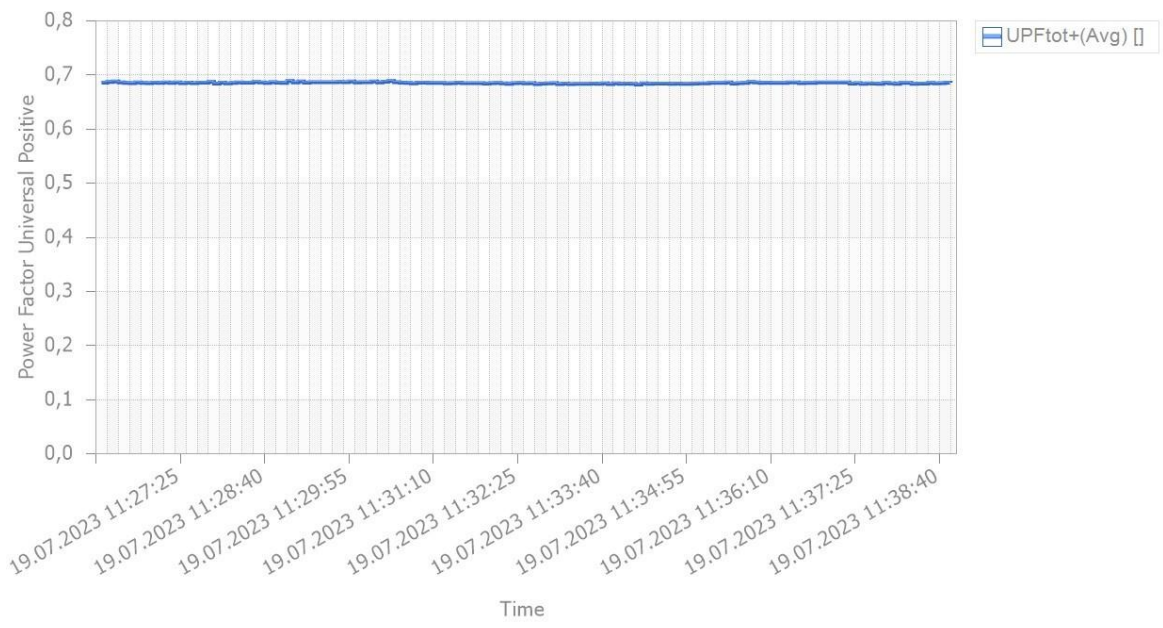
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



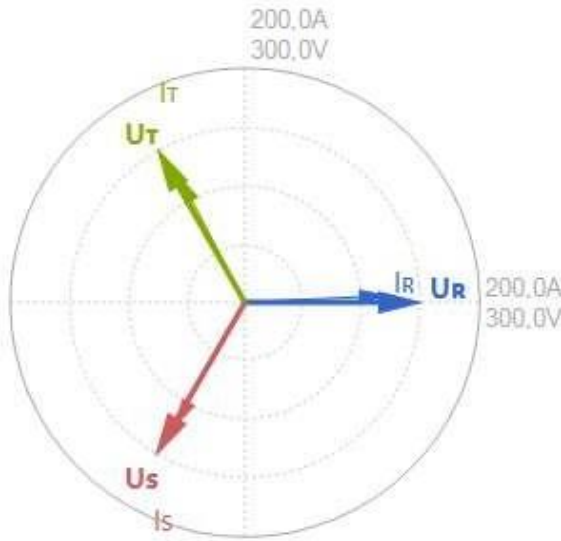
# B Blok Chiller Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	397,98	397,99	396,17

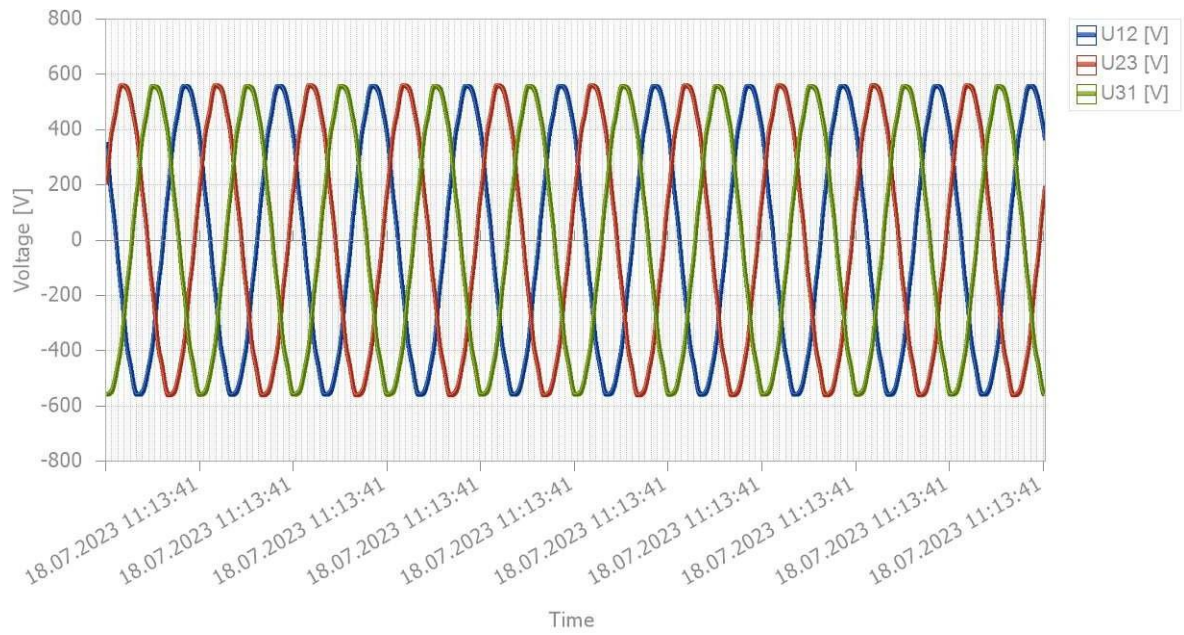
Item	R	S	T	N	Tot
Current [A]	130,12	130,21	131,01	111,32	
Load Factor [%]	99,23	99,30	99,91	84,89	
Active Power [kW]					85,05
Apparent Power [kVA]					89,66
Reactive Power [kvar]					NaN
Power Factor [%]					98,67
Frequency [Hz]					50,02

## Vector Diagram

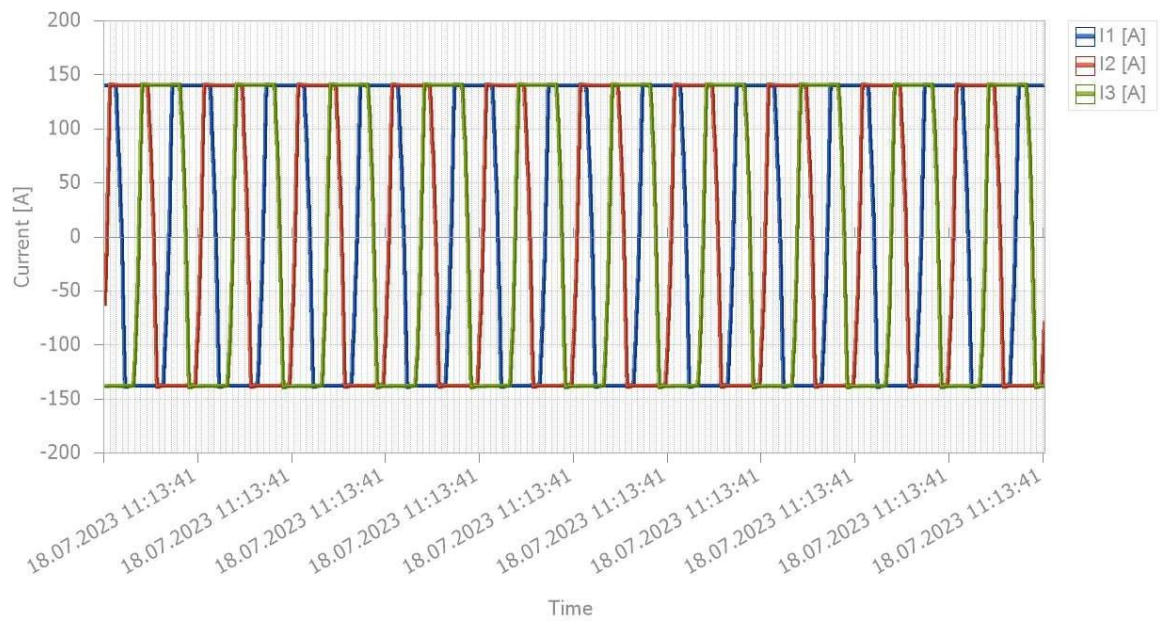


Item	Value	Angle
UR	228,56 V	0,00 °
US	229,63 V	-120,25 °
UT	229,03 V	119,65 °
IR	123,09 A	2,86 °
IS	123,16 A	-119,44 °
IT	123,68 A	117,47 °

## Voltage Waveform



## Current Waveform

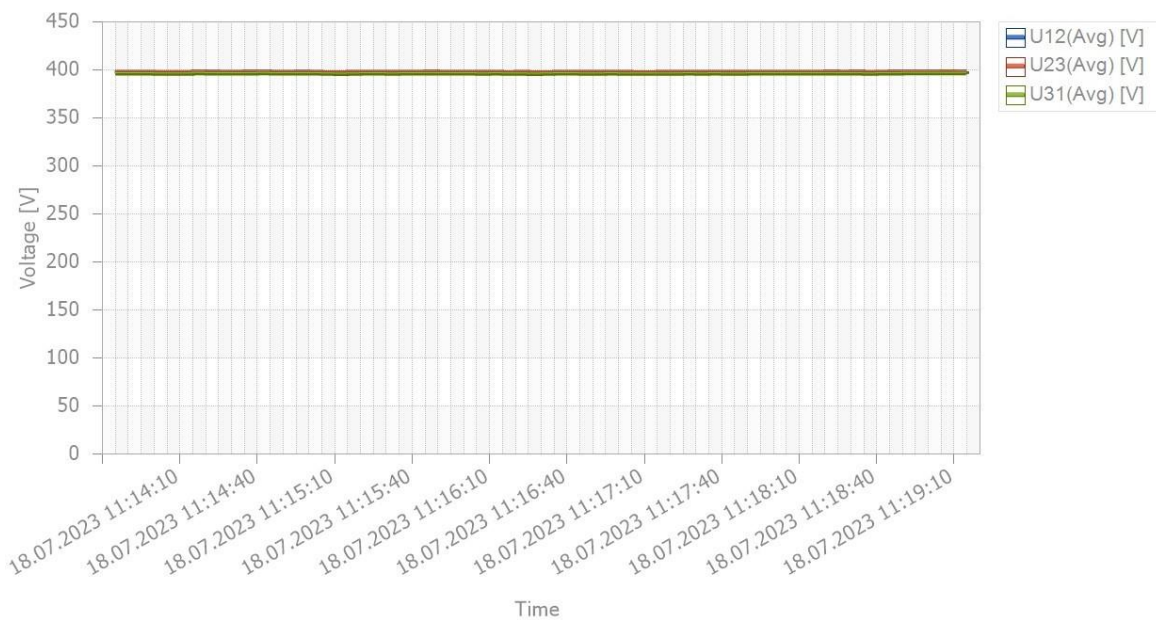




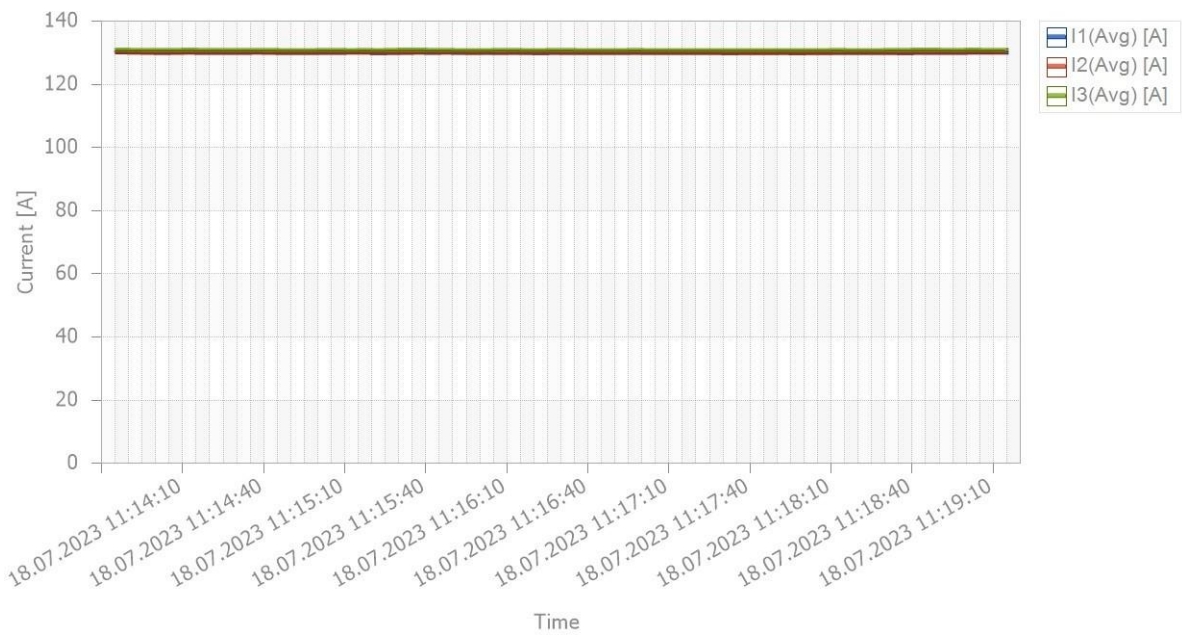
Item	Min	Time	Max	Time	Avg
UR [V]	228,58	18.07.2023 11:18:35	229,06	18.07.2023 11:14:15	228,82
US [V]	229,51	18.07.2023 11:15:10	230,12	18.07.2023 11:19:15	229,86
UT [V]	229,33	18.07.2023 11:13:59	229,85	18.07.2023 11:19:10	229,61
UR-S [V]	397,58	18.07.2023 11:16:25	398,27	18.07.2023 11:19:15	397,98
US-T [V]	397,62	18.07.2023 11:16:25	398,34	18.07.2023 11:19:15	397,99
UT-R [V]	395,76	18.07.2023 11:16:25	396,46	18.07.2023 11:19:10	396,17
IR [A]	129,91	18.07.2023 11:17:30	130,12	18.07.2023 11:13:45	129,98
IS [A]	129,99	18.07.2023 11:17:30	130,21	18.07.2023 11:18:59	130,09
IT [A]	130,78	18.07.2023 11:17:30	131,01	18.07.2023 11:13:45	130,86
IN [A]	110,55	18.07.2023 11:17:30	111,32	18.07.2023 11:13:45	110,85
P [kW]	84,74	18.07.2023 11:17:40	85,05	18.07.2023 11:18:59	84,93
Sv [kVA]	85,38	18.07.2023 11:16:25	89,66	18.07.2023 11:17:50	86,09
N [kvar]	NaN	N/A	NaN	N/A	NaN
PF	0,95	18.07.2023 11:17:40	0,99	18.07.2023 11:19:10	0,99
f [Hz]	49,99	18.07.2023 11:13:50	50,03	18.07.2023 11:18:59	50,02

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

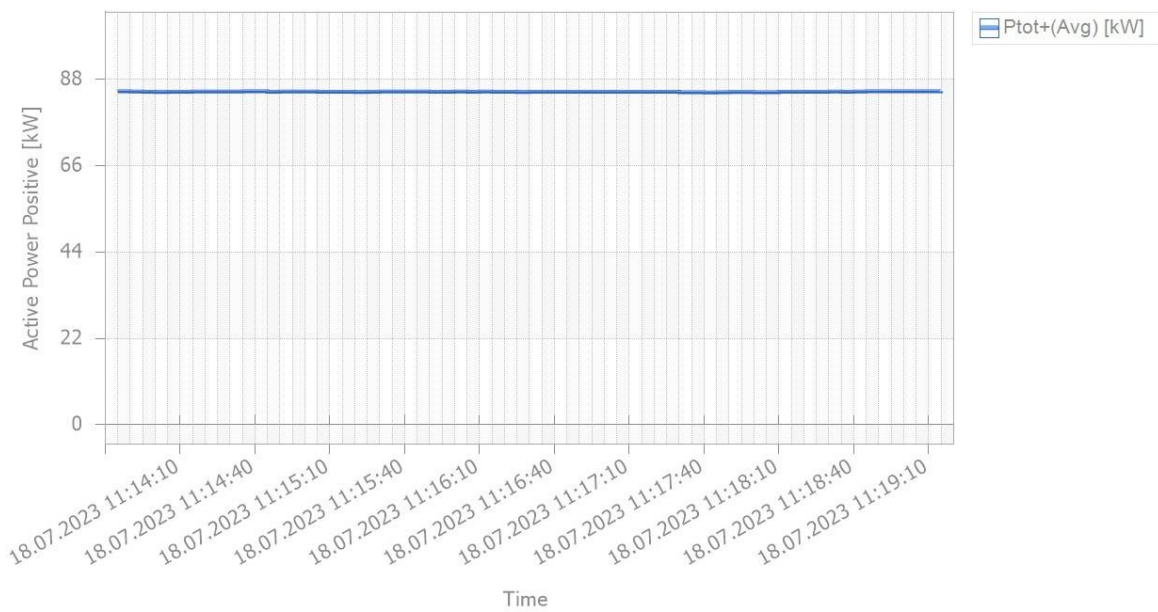
### Voltage Time Plot



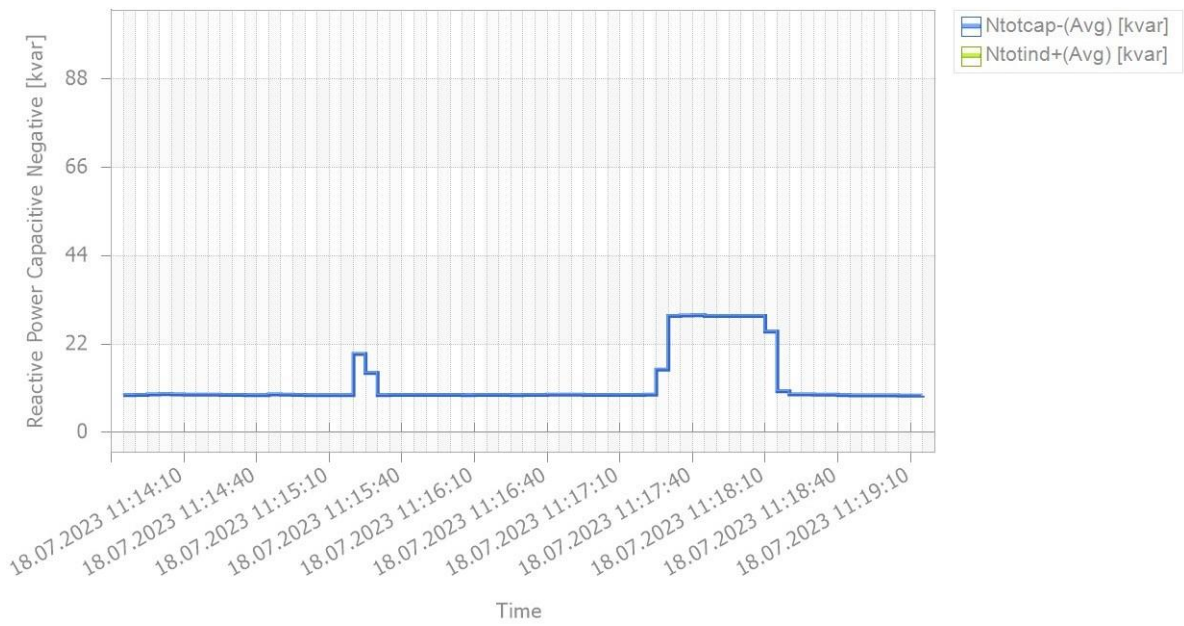
## Current Time Plot



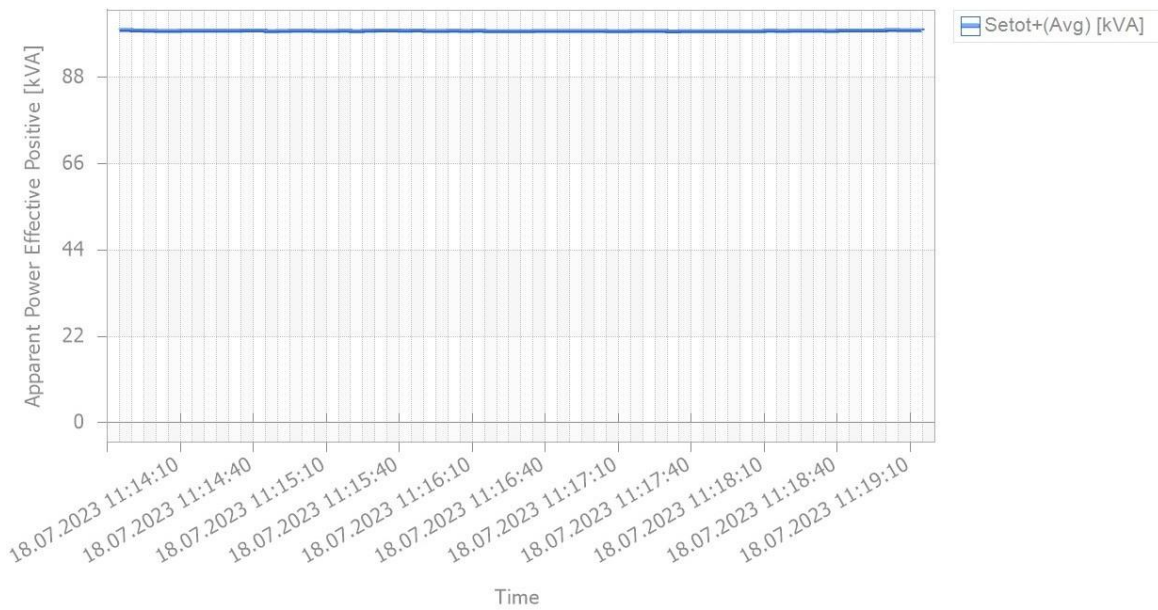
## Active Power Time Plot



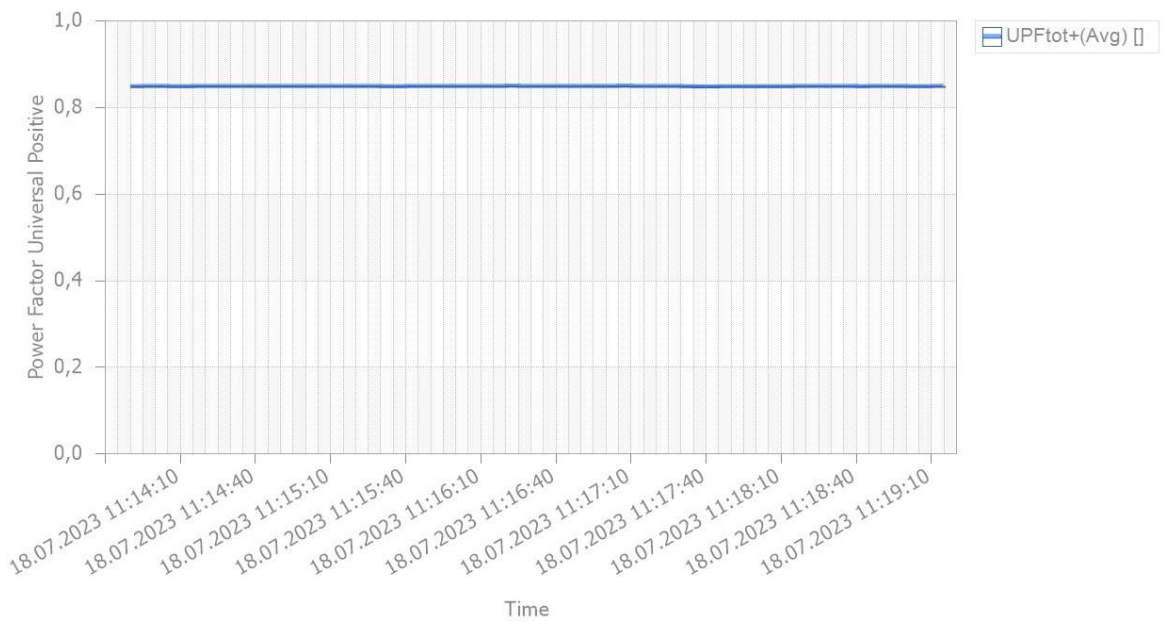
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



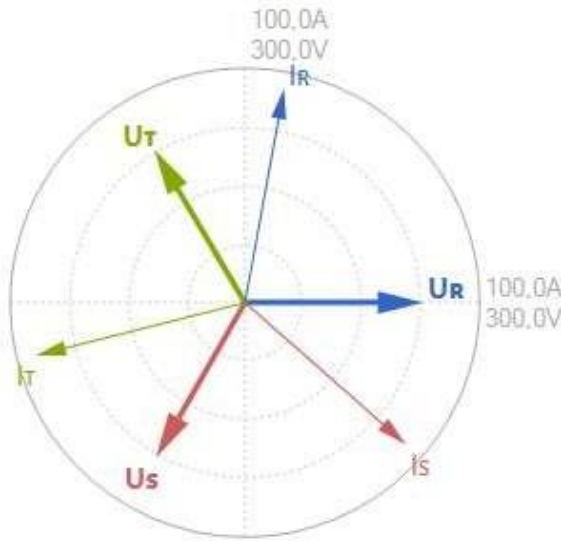
# B Blok VRF ADP Pano Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	396,01	395,39	396,93

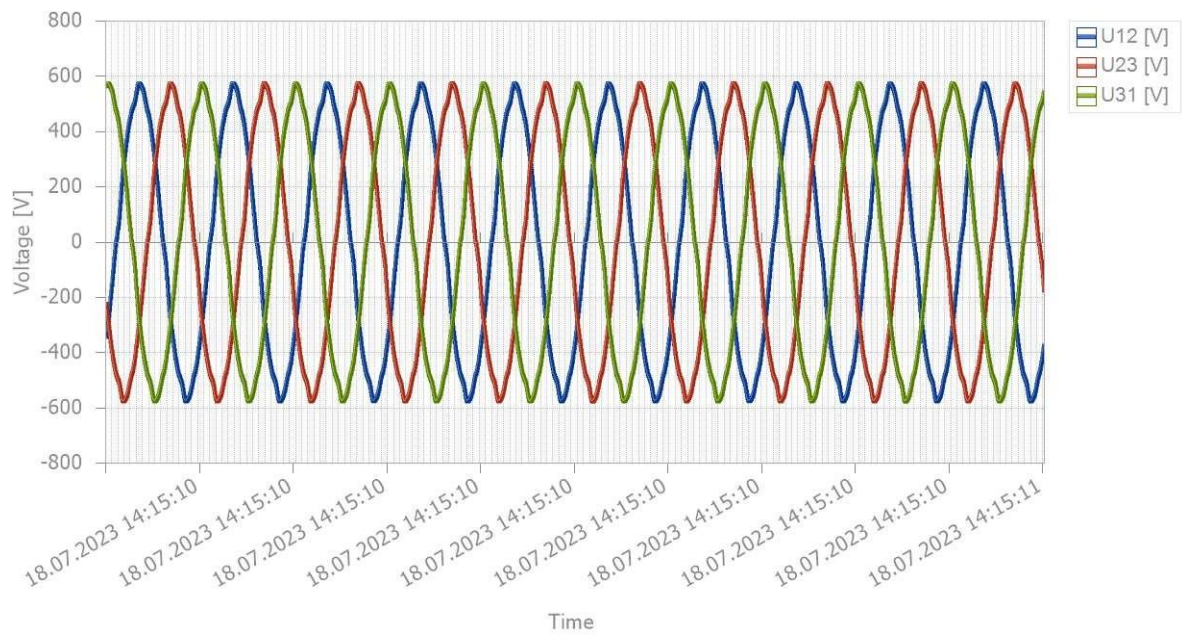
Item	R	S	T	N	Tot
Current [A]	126,62	126,07	123,62	122,51	
Load Factor [%]	99,74	99,30	97,37	96,49	
Active Power [kW]					22,43
Apparent Power [kVA]					86,06
Reactive Power [kvar]					NaN
Power Factor [%]					15,03
Frequency [Hz]					50,00

## Vector Diagram

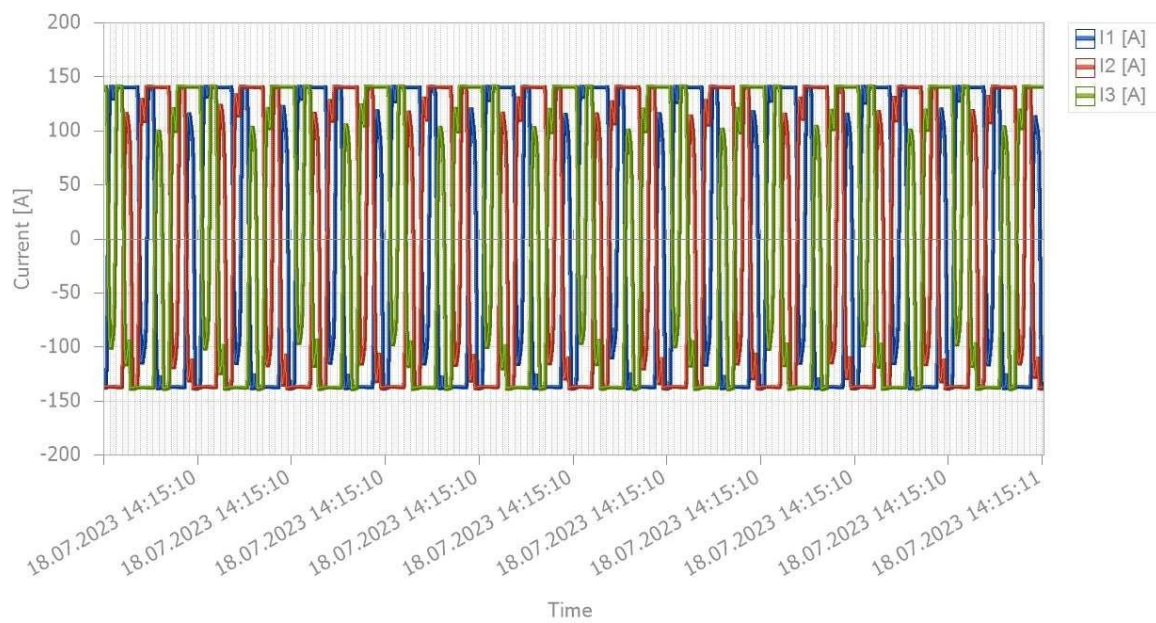


Item	Value	Angle
UR	227,95 V	0,00 °
US	228,56 V	-119,82 °
UT	227,68 V	120,59 °
IR	92,77 A	79,64 °
IS	91,46 A	-41,42 °
IT	92,02 A	-165,76 °

## Voltage Waveform



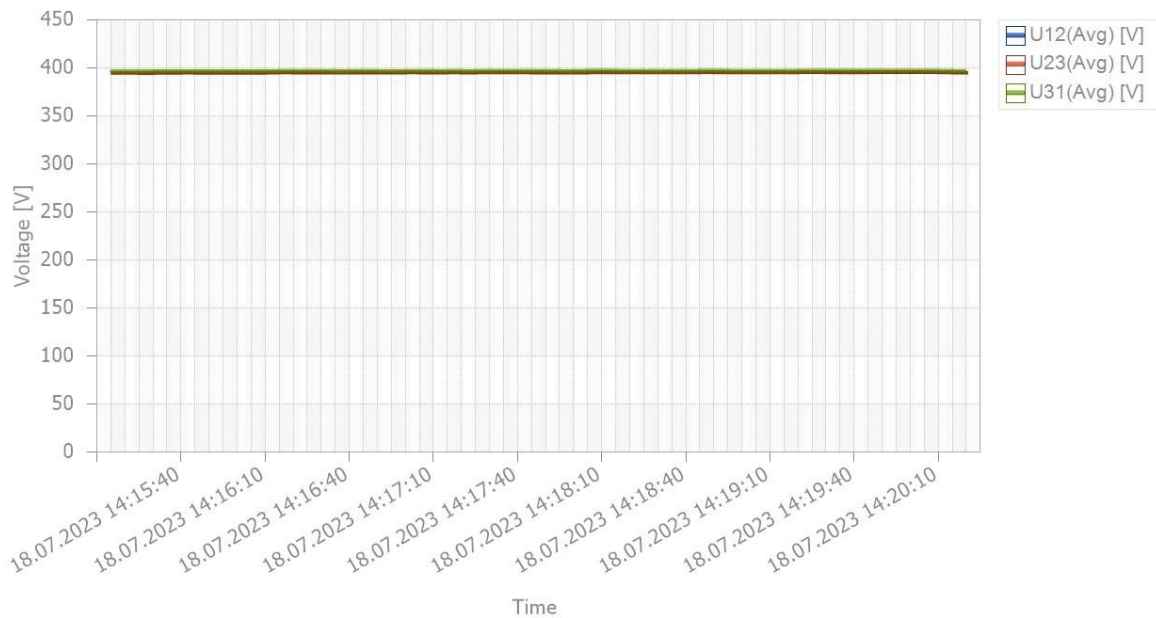
## Current Waveform



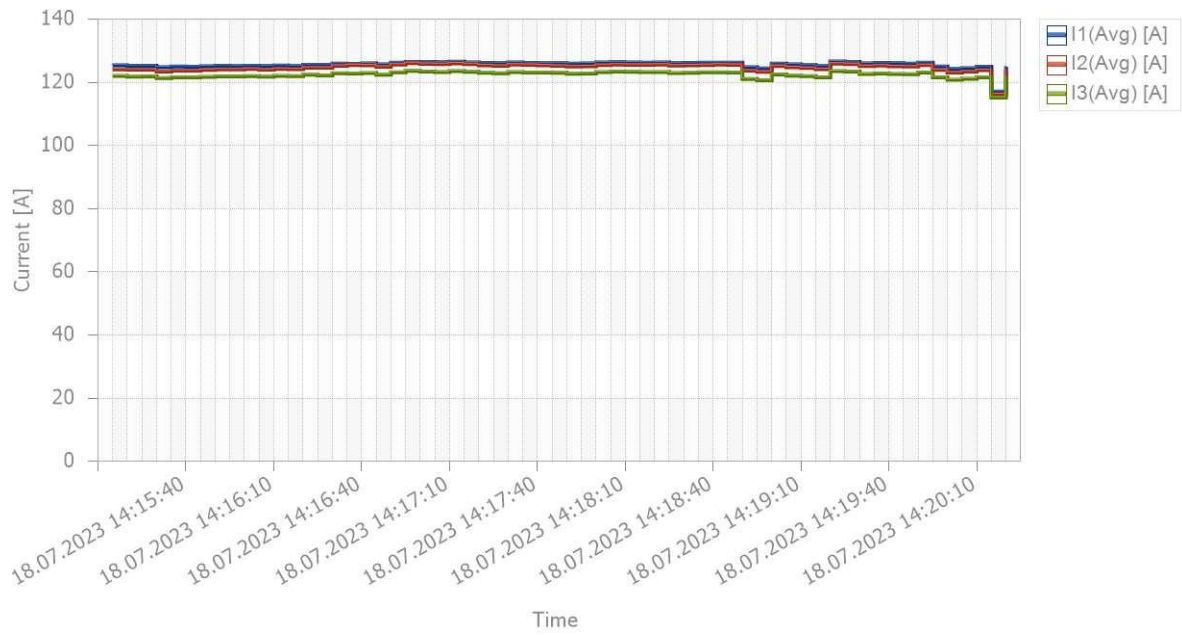
Item	Min	Time	Max	Time	Avg
UR [V]	228,28	18.07.2023 14:15:25	228,77	18.07.2023 14:19:20	228,55
US [V]	228,86	18.07.2023 14:15:25	229,37	18.07.2023 14:19:50	229,13
UT [V]	228,06	18.07.2023 14:15:25	228,63	18.07.2023 14:19:50	228,41
UR-S [V]	395,55	18.07.2023 14:15:25	396,43	18.07.2023 14:19:50	396,01
US-T [V]	394,85	18.07.2023 14:15:25	395,80	18.07.2023 14:19:50	395,39
UT-R [V]	396,39	18.07.2023 14:15:25	397,28	18.07.2023 14:19:20	396,93
IR [A]	117,07	18.07.2023 14:20:15	126,62	18.07.2023 14:19:20	125,62
IS [A]	116,30	18.07.2023 14:20:15	126,07	18.07.2023 14:16:55	124,75
IT [A]	115,22	18.07.2023 14:20:15	123,62	18.07.2023 14:16:55	122,42
IN [A]	121,47	18.07.2023 14:19:59	122,51	18.07.2023 14:17:10	122,07
P [kW]	10,87	18.07.2023 14:19:20	22,43	18.07.2023 14:20:15	12,80
Sv [kVA]	79,55	18.07.2023 14:20:15	86,06	18.07.2023 14:19:20	85,20
N [kvar]	NaN	N/A	NaN	N/A	NaN
PF	0,13	18.07.2023 14:19:20	0,29	18.07.2023 14:20:15	0,15
f [Hz]	49,98	18.07.2023 14:18:30	50,02	18.07.2023 14:20:15	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

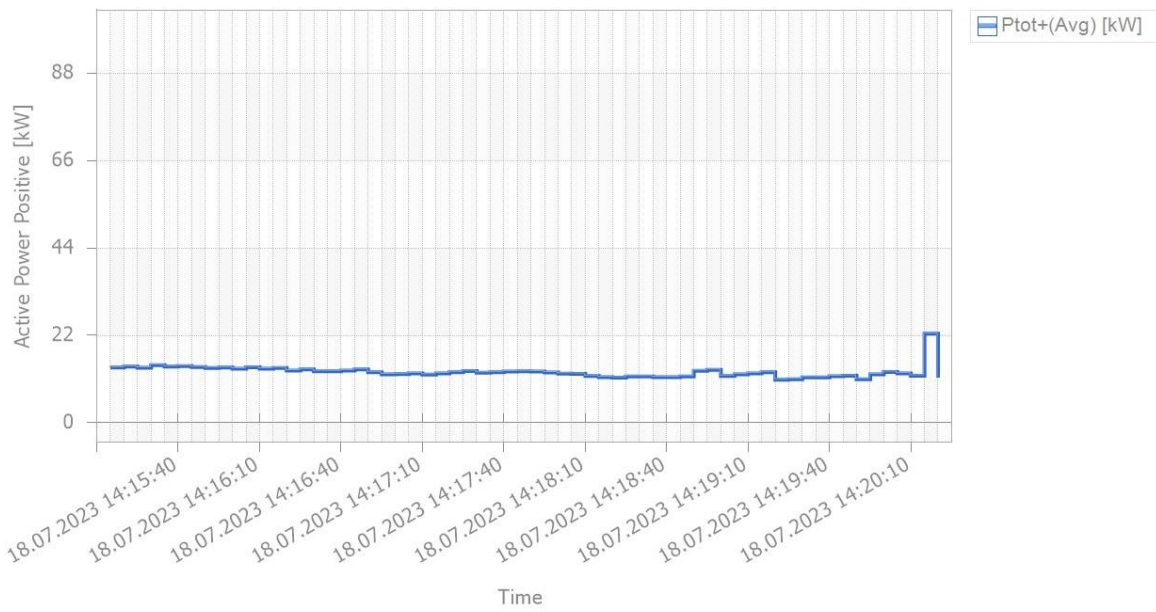
### Voltage Time Plot



## Current Time Plot

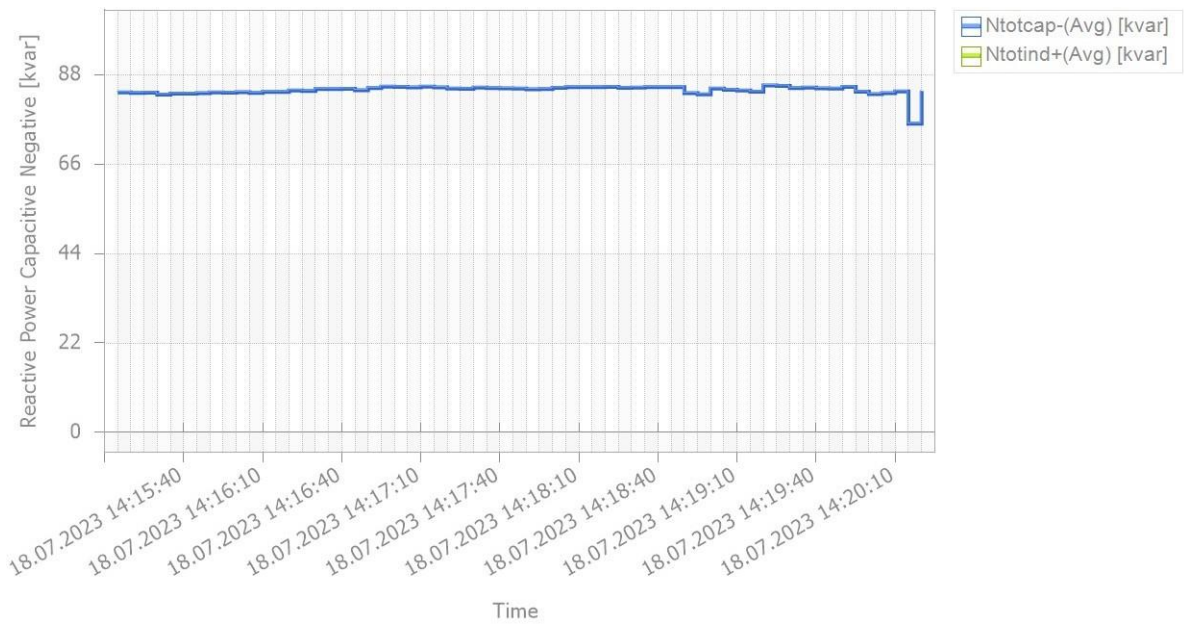


## Active Power Time Plot

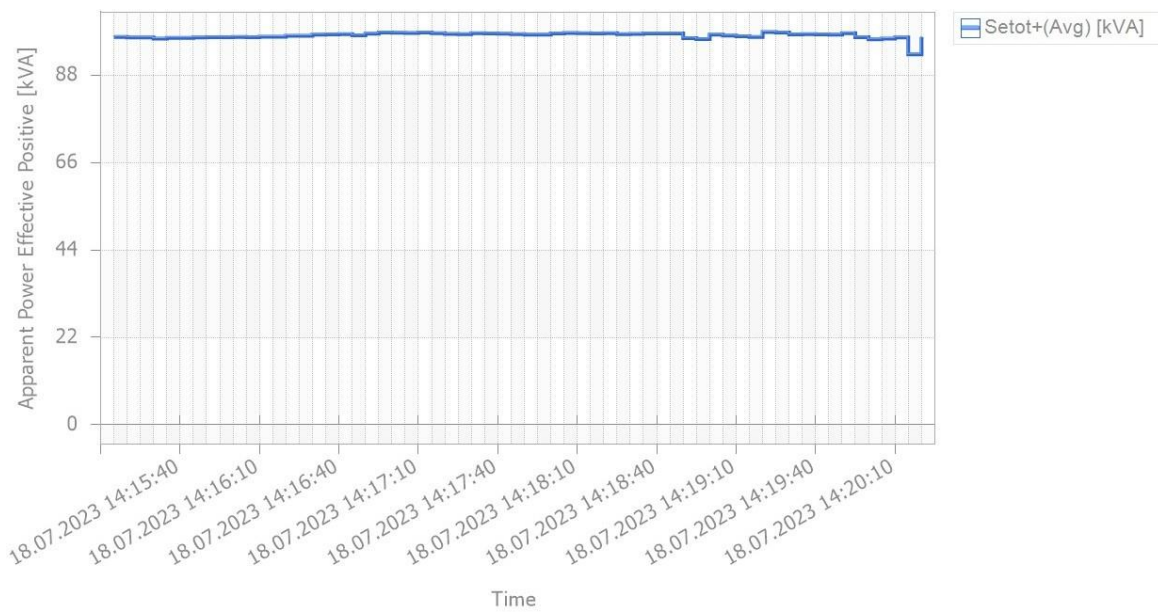




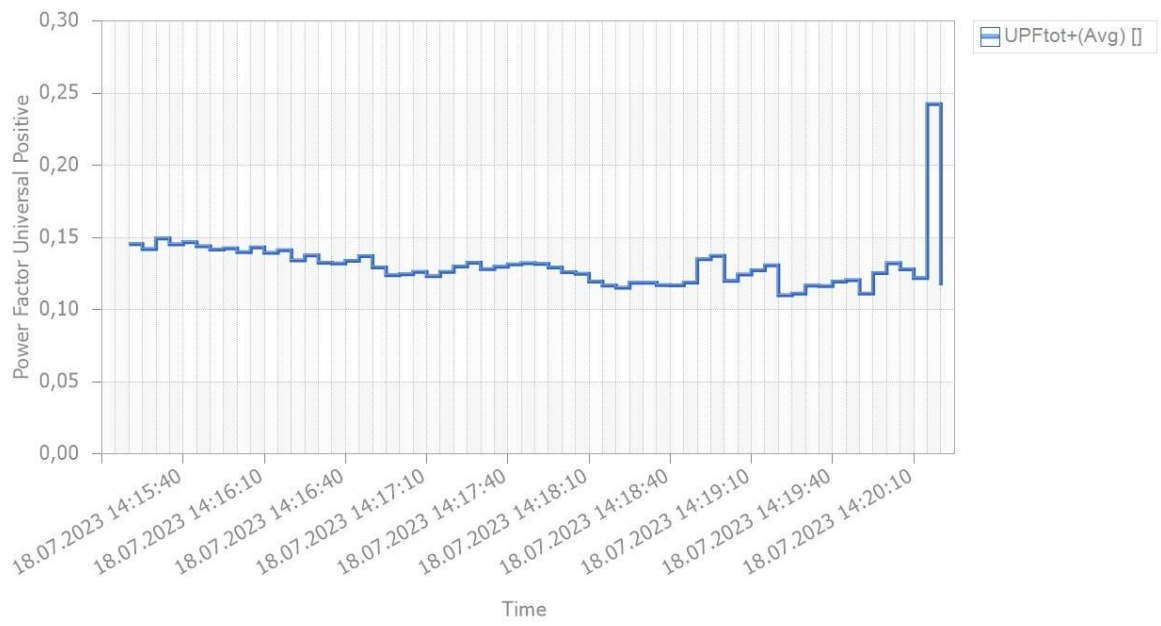
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



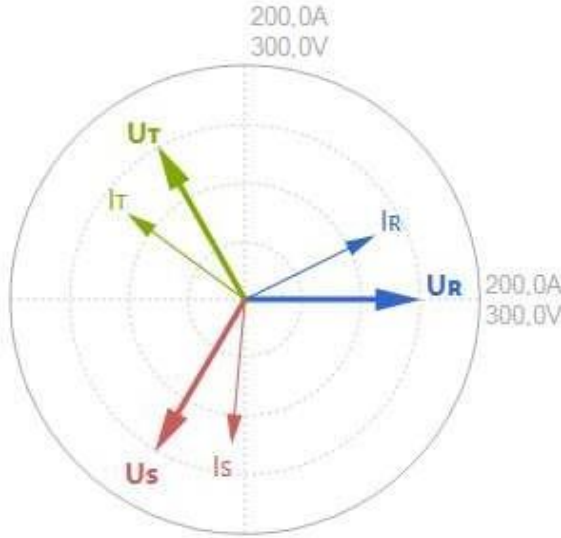
# Chiller 2 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	394,19	394,20	391,89

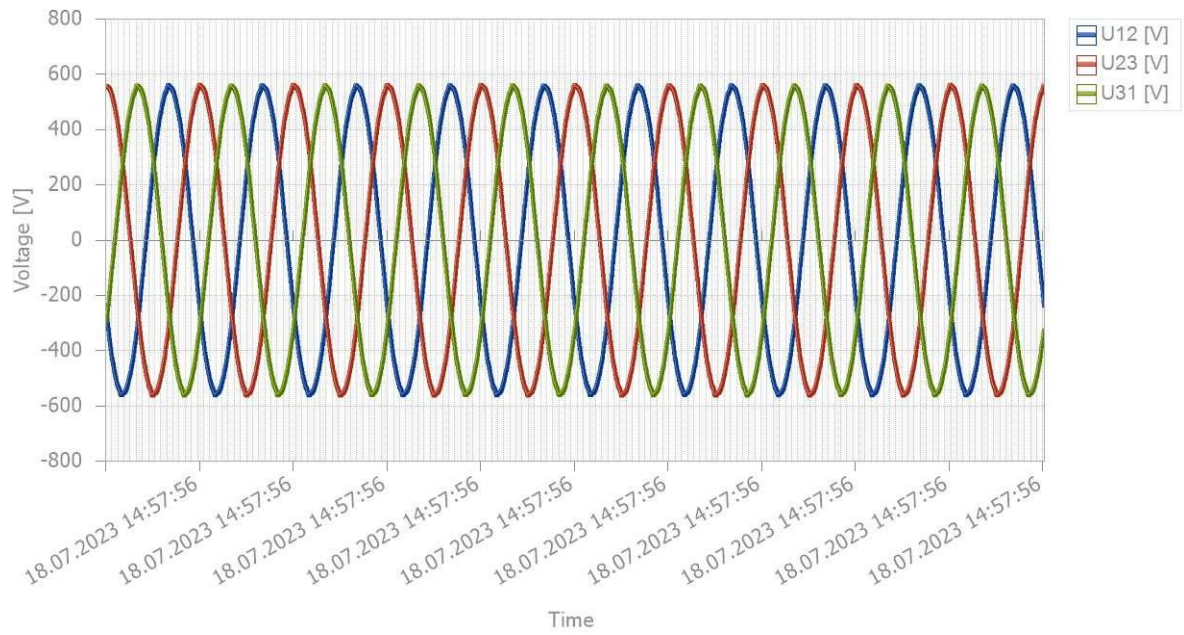
Item	R	S	T	N	Tot
Current [A]	133,18	133,15	133,42	119,88	
Load Factor [%]	99,79	99,76	99,97	89,82	
Active Power [kW]					77,60
Apparent Power [kVA]					90,83
Reactive Power [kvar]					NaN
Power Factor [%]					85,12
Frequency [Hz]					50,01

## Vector Diagram

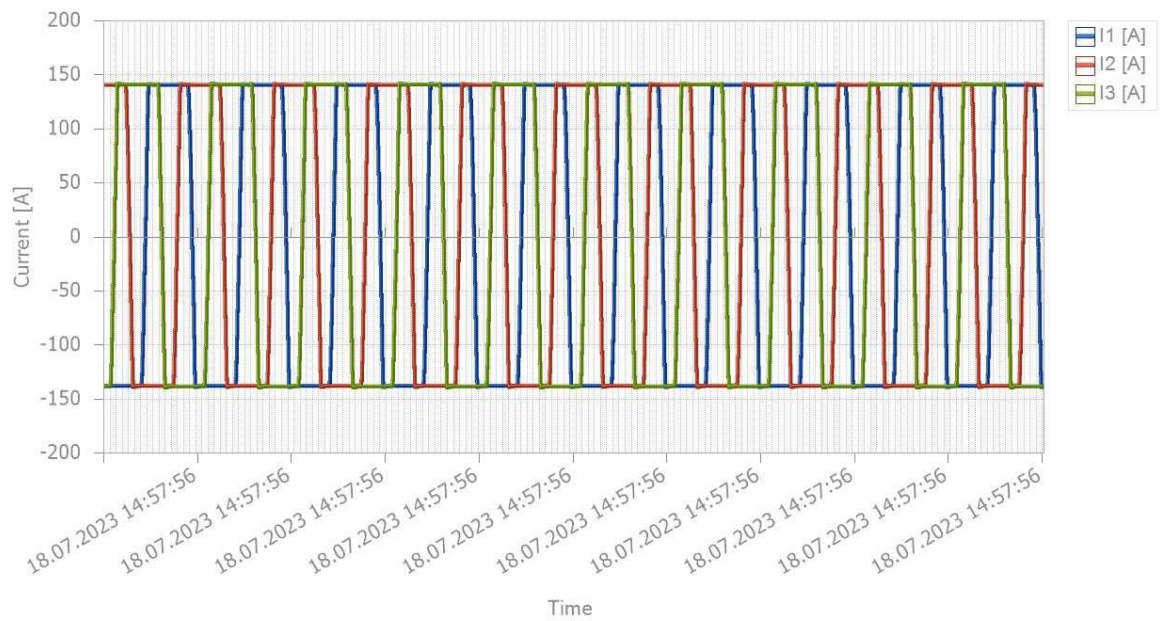


Item	Value	Angle
UR	225,35 V	0,00 °
US	227,17 V	-120,55 °
UT	226,80 V	119,55 °
IR	124,28 A	26,29 °
IS	124,28 A	-95,23 °
IT	124,63 A	143,68 °

## Voltage Waveform



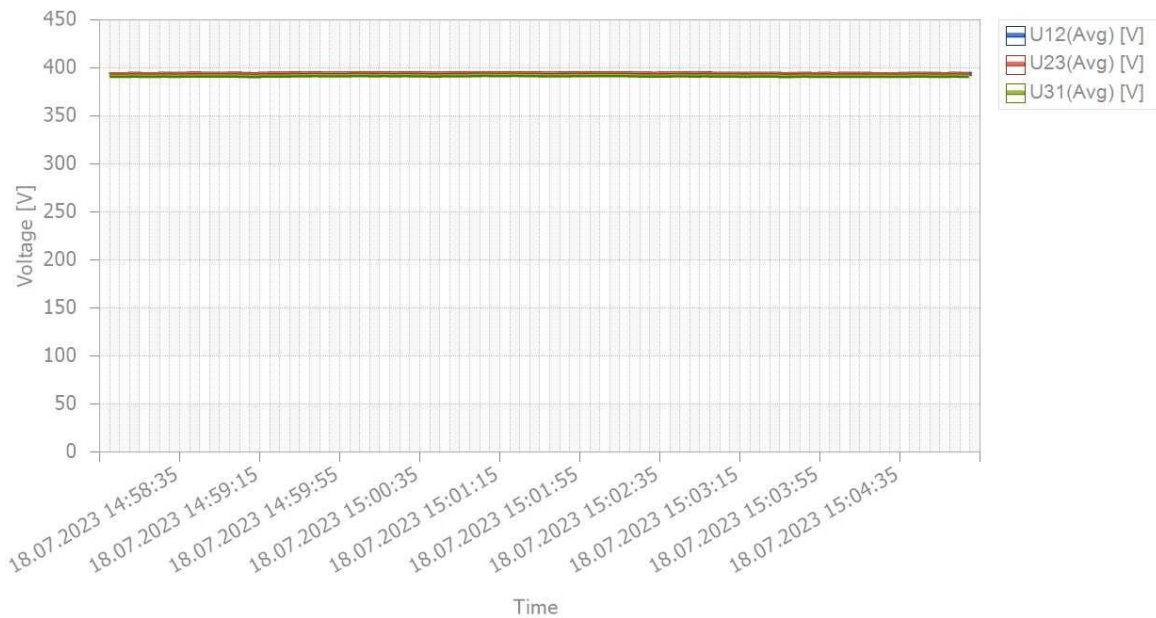
## Current Waveform



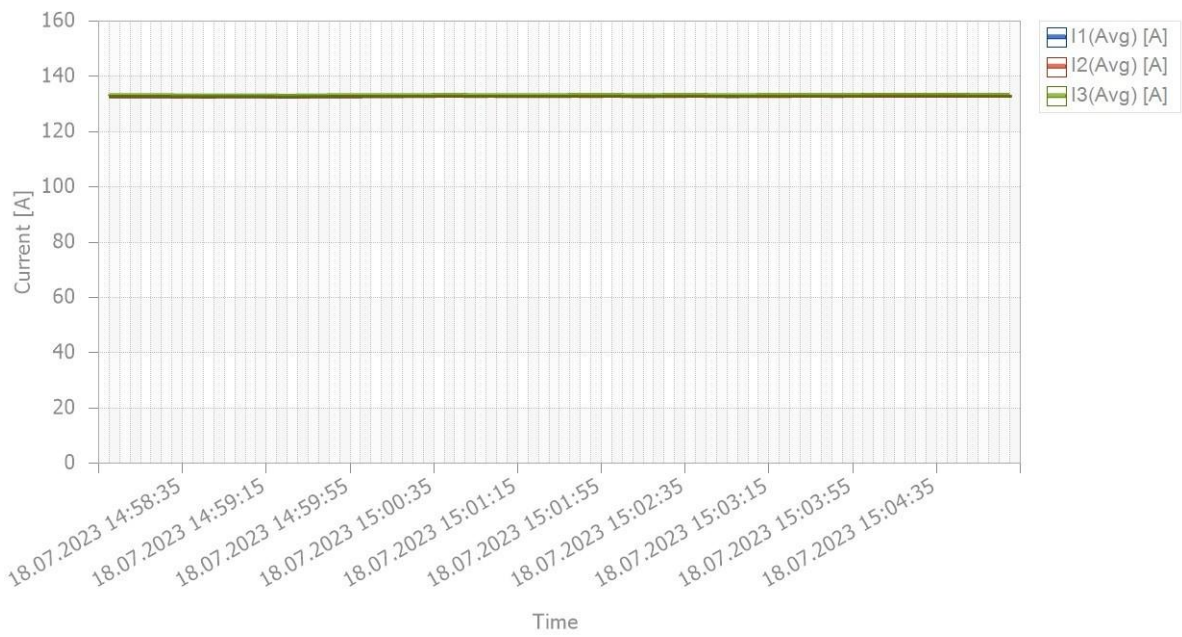
Item	Min	Time	Max	Time	Avg
UR [V]	225,80	18.07.2023 14:59:10	226,59	18.07.2023 15:01:55	226,18
US [V]	227,52	18.07.2023 14:59:10	228,06	18.07.2023 15:00:59	227,80
UT [V]	227,16	18.07.2023 14:59:10	227,79	18.07.2023 15:01:20	227,46
UR-S [V]	393,65	18.07.2023 14:59:10	394,76	18.07.2023 15:01:55	394,19
US-T [V]	393,59	18.07.2023 14:59:10	394,79	18.07.2023 15:00:59	394,20
UT-R [V]	391,37	18.07.2023 14:59:10	392,49	18.07.2023 15:01:20	391,89
IR [A]	132,80	18.07.2023 14:59:25	133,18	18.07.2023 15:05:10	133,00
IS [A]	132,79	18.07.2023 14:59:25	133,15	18.07.2023 15:05:10	132,96
IT [A]	133,07	18.07.2023 14:59:25	133,42	18.07.2023 15:05:10	133,25
IN [A]	118,77	18.07.2023 14:59:25	119,88	18.07.2023 15:05:10	119,34
P [kW]	76,58	18.07.2023 14:58:05	77,60	18.07.2023 15:00:15	77,18
Sv [kVA]	90,47	18.07.2023 14:59:10	90,83	18.07.2023 15:01:55	90,67
N [kvar]	NaN	N/A	NaN	N/A	NaN
PF	0,85	18.07.2023 14:58:05	0,86	18.07.2023 15:00:15	0,85
f [Hz]	49,97	18.07.2023 15:04:35	50,03	18.07.2023 14:58:45	50,01

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

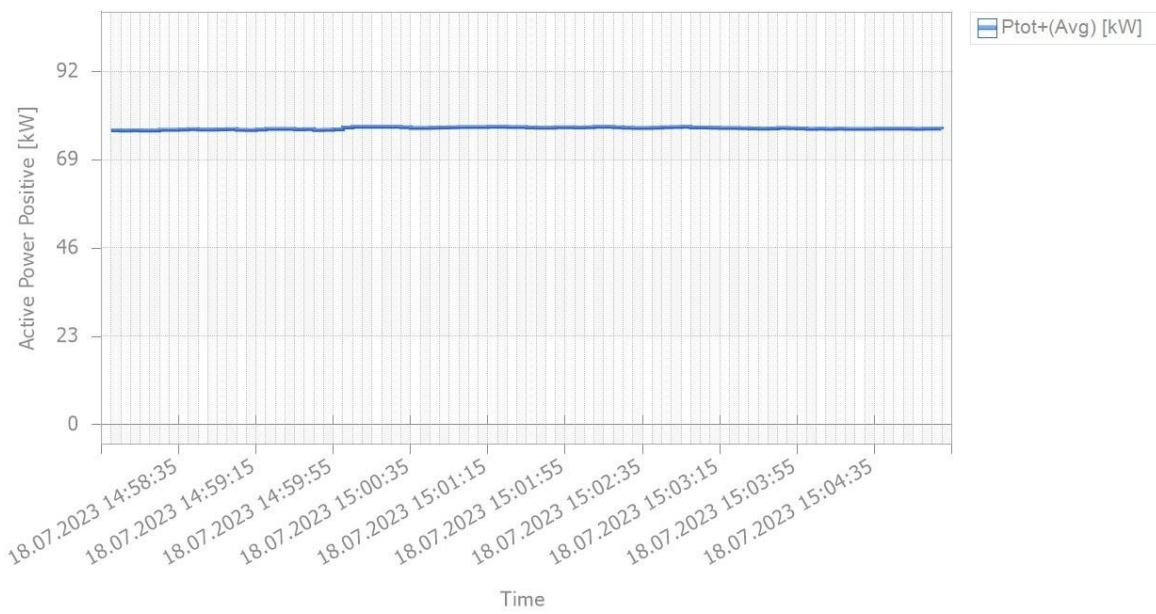
### Voltage Time Plot



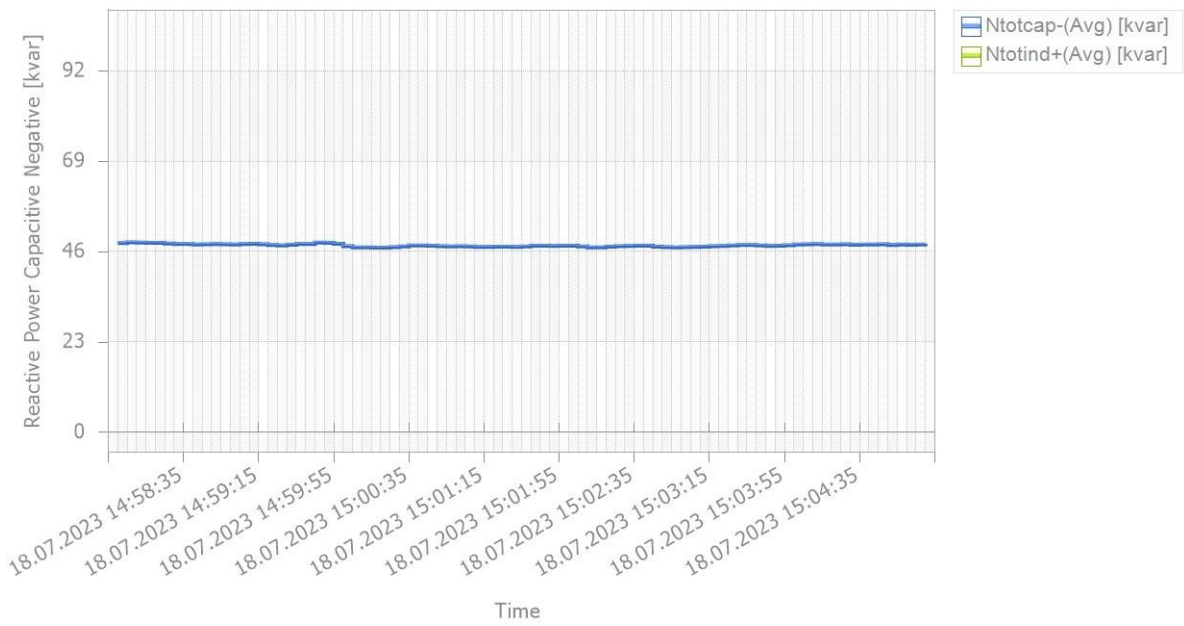
## Current Time Plot



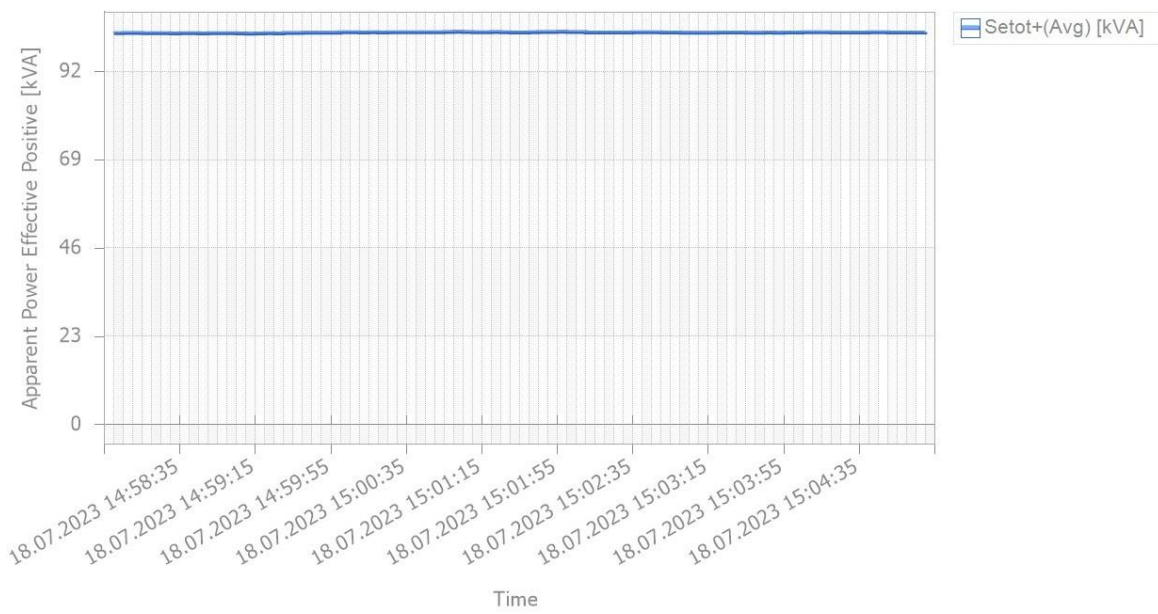
## Active Power Time Plot



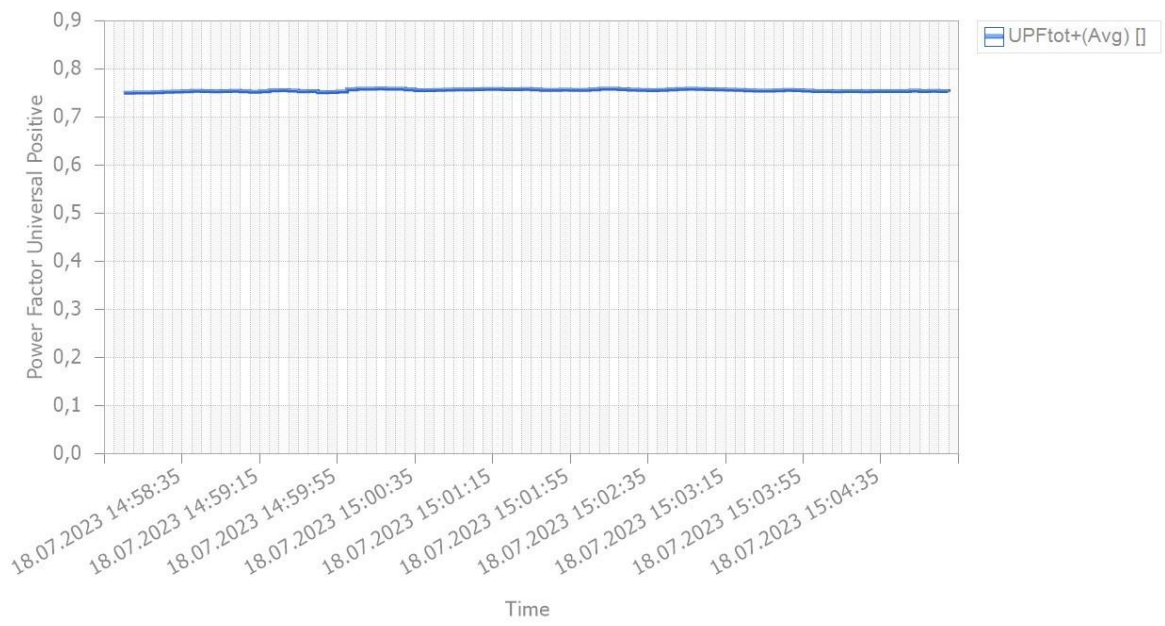
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot





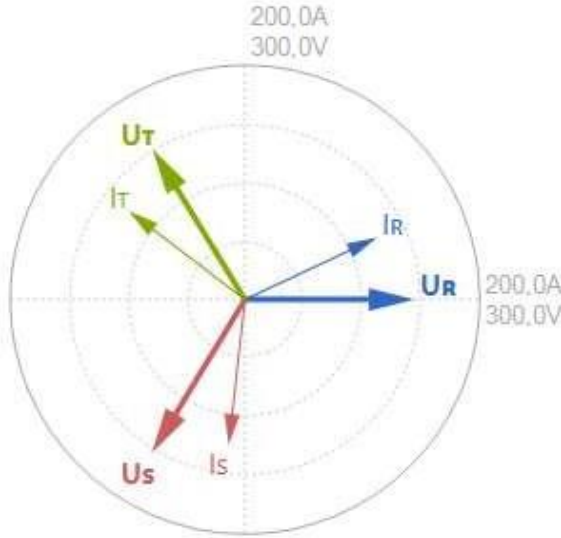
# Chiller 4 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	389,27	389,31	386,68

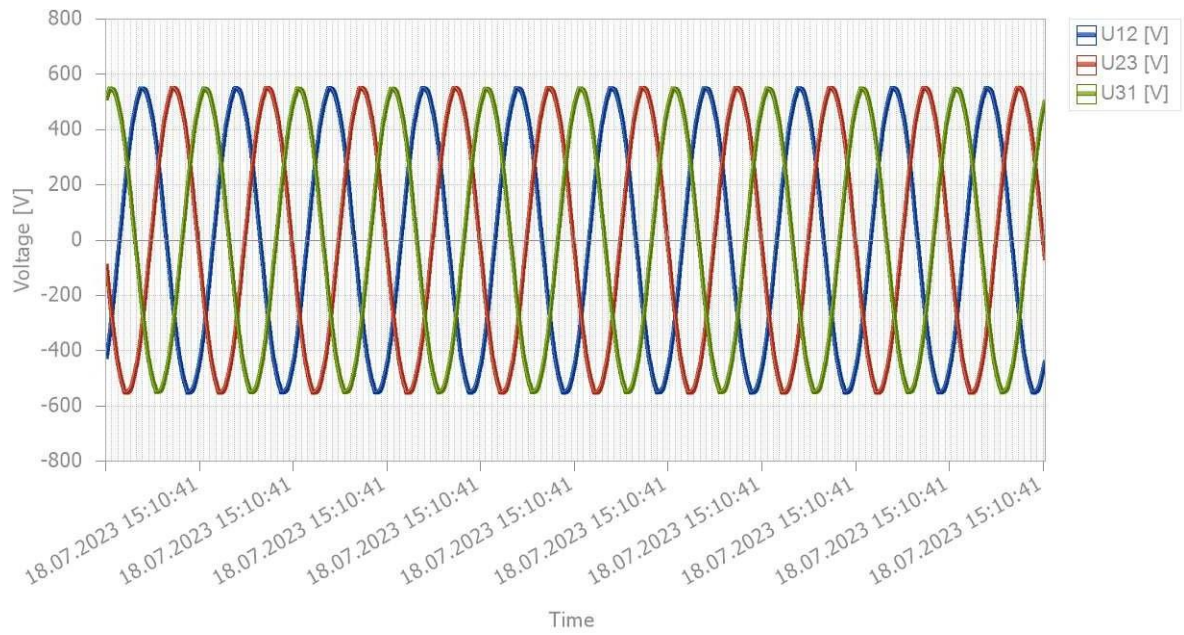
Item	R	S	T	N	Tot
Current [A]	133,33	133,27	133,46	120,26	
Load Factor [%]	99,90	99,85	99,99	90,10	
Active Power [kW]					76,81
Apparent Power [kVA]					89,78
Reactive Power [kvar]					NaN
Power Factor [%]					85,50
Frequency [Hz]					49,98

## Vector Diagram

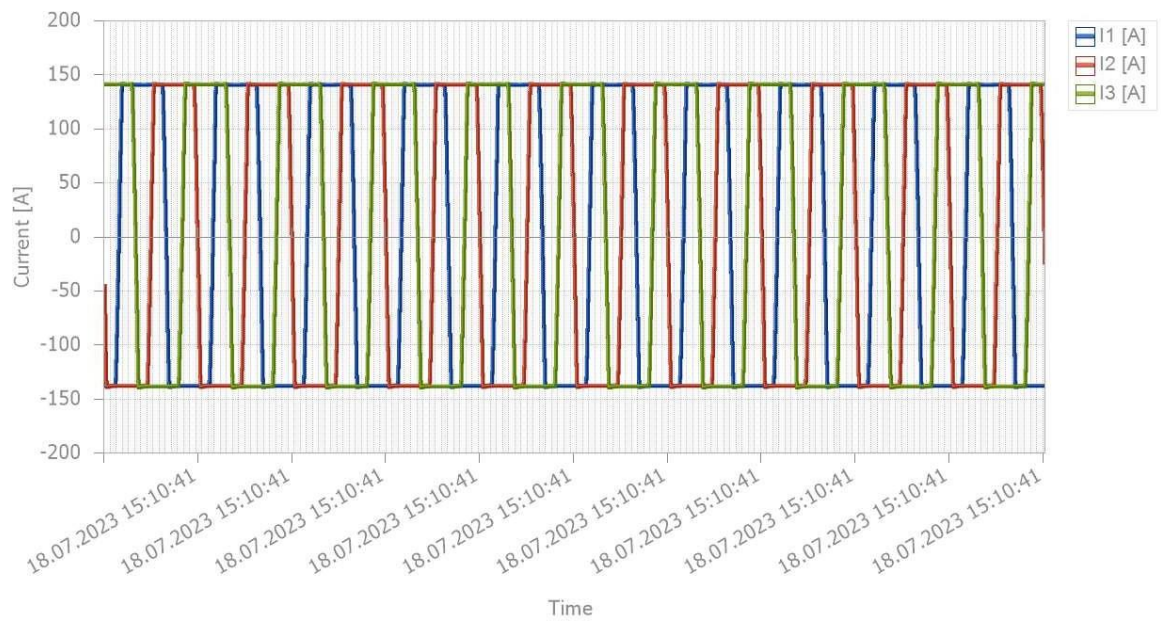


Item	Value	Angle
UR	216,74 V	0,00 °
US	229,38 V	-121,20 °
UT	225,87 V	121,49 °
IR	124,45 A	25,19 °
IS	124,42 A	-96,37 °
IT	124,72 A	142,63 °

## Voltage Waveform



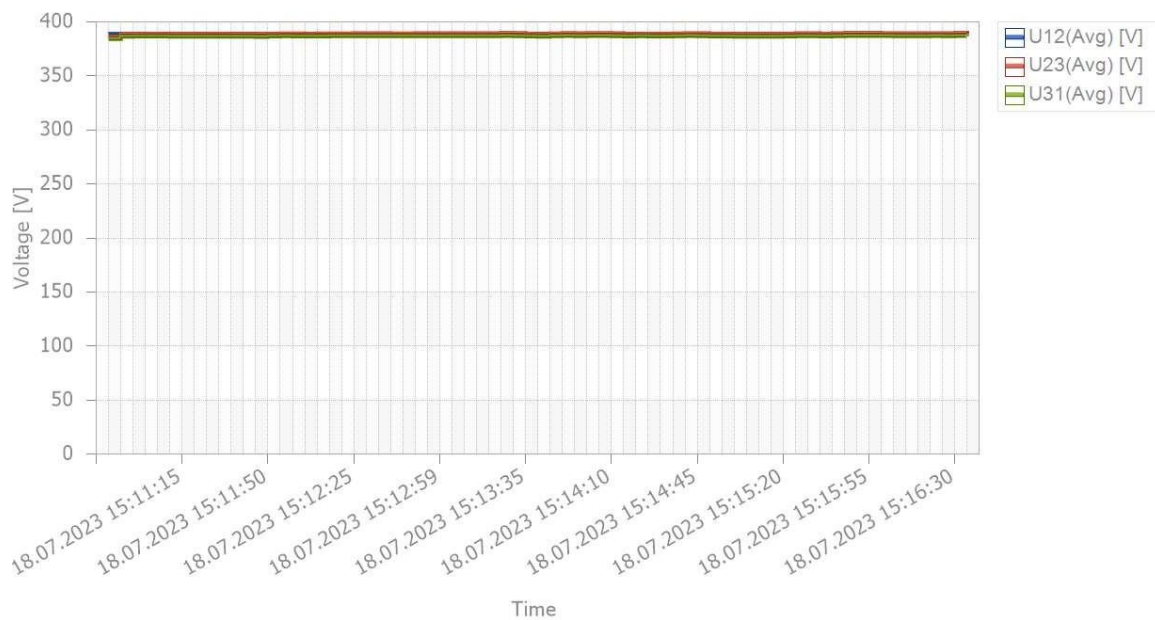
## Current Waveform



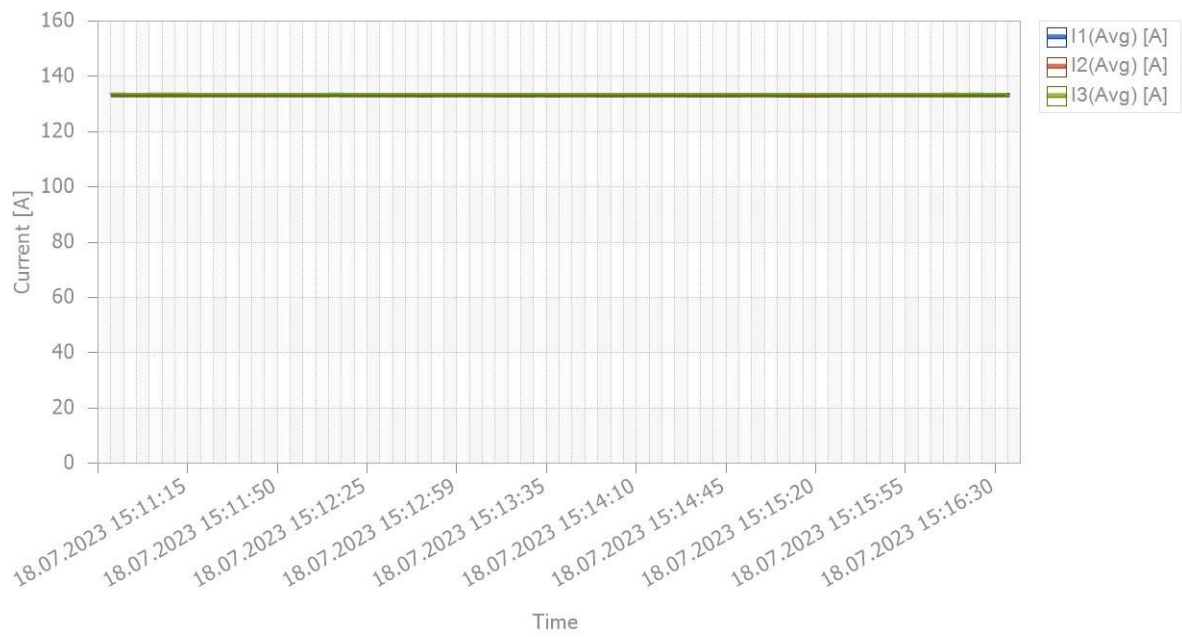
Item	Min	Time	Max	Time	Avg
UR [V]	216,39	18.07.2023 15:14:59	219,86	18.07.2023 15:16:35	216,92
Us [V]	228,05	18.07.2023 15:16:35	230,38	18.07.2023 15:15:50	229,95
UT [V]	224,21	18.07.2023 15:10:45	226,43	18.07.2023 15:15:50	226,09
UR-s [V]	388,74	18.07.2023 15:11:45	389,67	18.07.2023 15:13:25	389,27
Us-T [V]	386,66	18.07.2023 15:10:45	389,72	18.07.2023 15:15:50	389,31
UT-R [V]	384,24	18.07.2023 15:10:45	387,10	18.07.2023 15:15:55	386,68
IR [A]	133,24	18.07.2023 15:15:15	133,33	18.07.2023 15:12:10	133,28
Is [A]	133,16	18.07.2023 15:15:15	133,27	18.07.2023 15:12:10	133,21
IT [A]	133,36	18.07.2023 15:15:15	133,46	18.07.2023 15:11:05	133,40
IN [A]	119,81	18.07.2023 15:15:15	120,26	18.07.2023 15:11:05	120,01
P [kW]	76,10	18.07.2023 15:10:45	76,81	18.07.2023 15:16:30	76,67
Sv [kVA]	89,23	18.07.2023 15:10:45	89,78	18.07.2023 15:15:50	89,68
N [kvar]	NaN	N/A	NaN	N/A	NaN
PF	0,85	18.07.2023 15:12:15	0,86	18.07.2023 15:15:25	0,86
f [Hz]	49,97	18.07.2023 15:12:40	50,01	18.07.2023 15:13:25	49,98

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

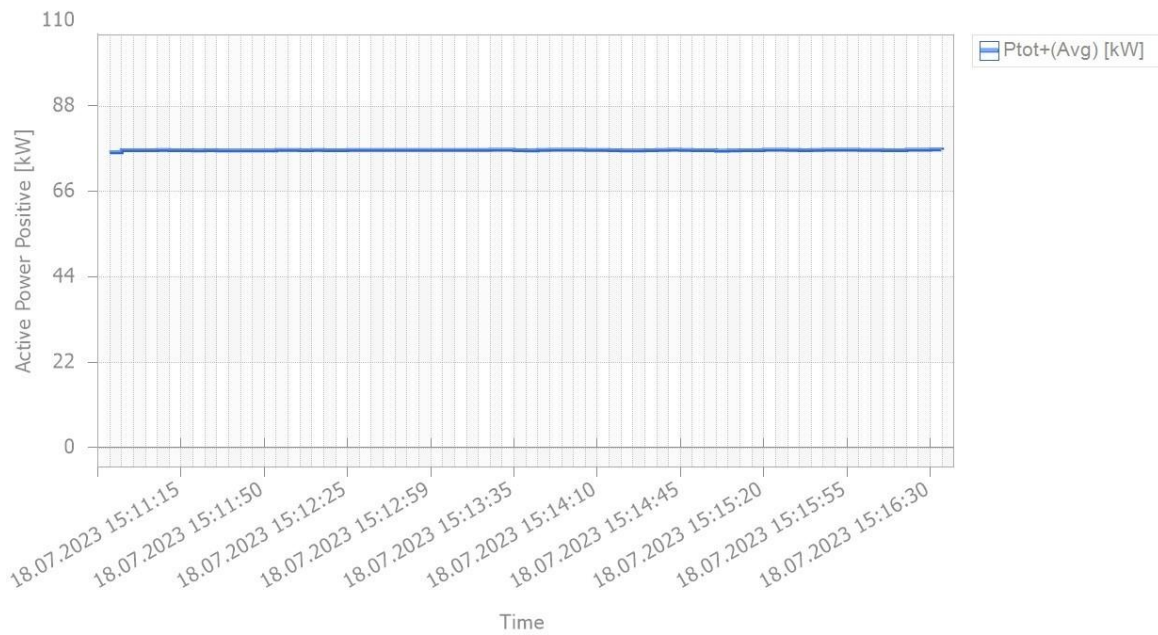
### Voltage Time Plot



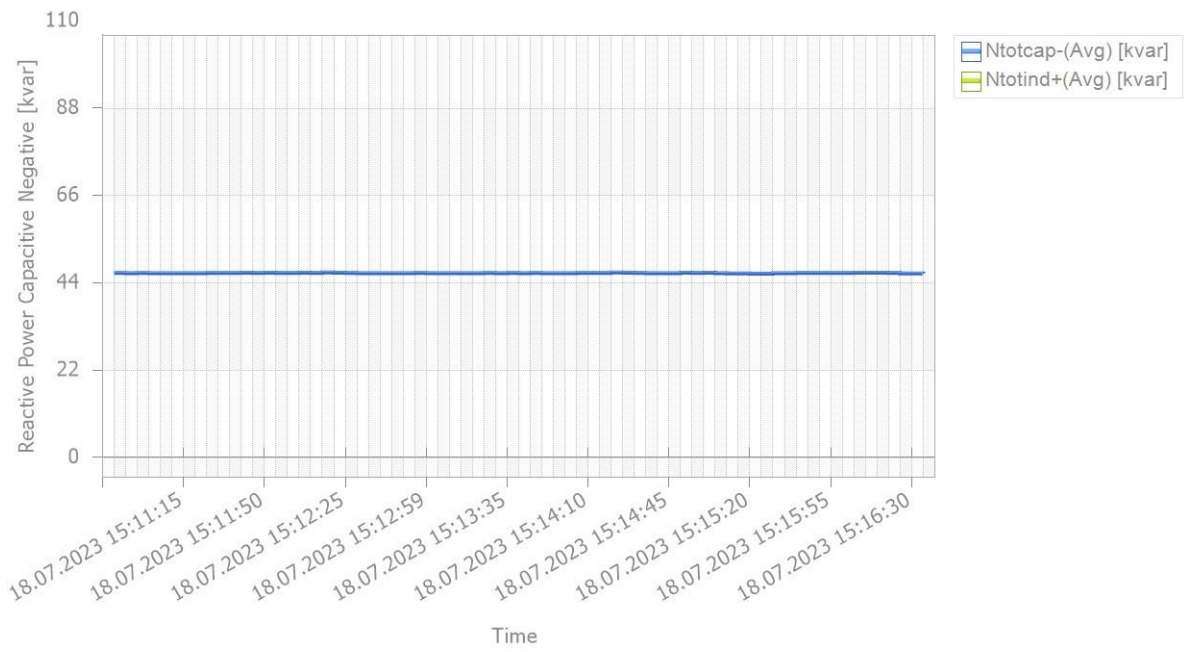
## Current Time Plot



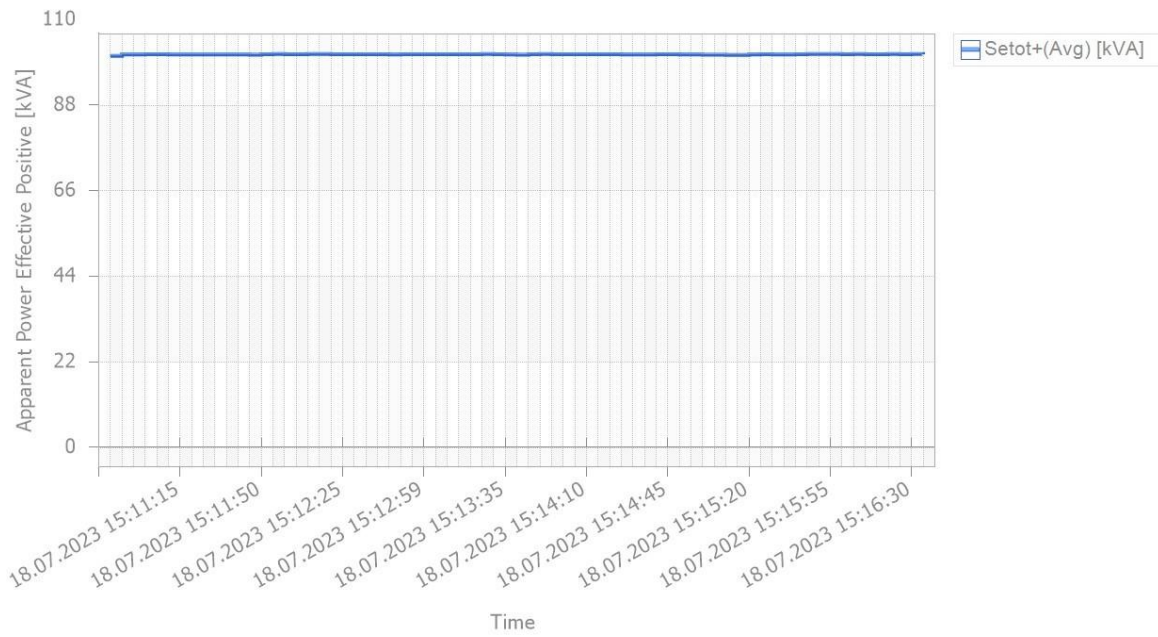
## Active Power Time Plot



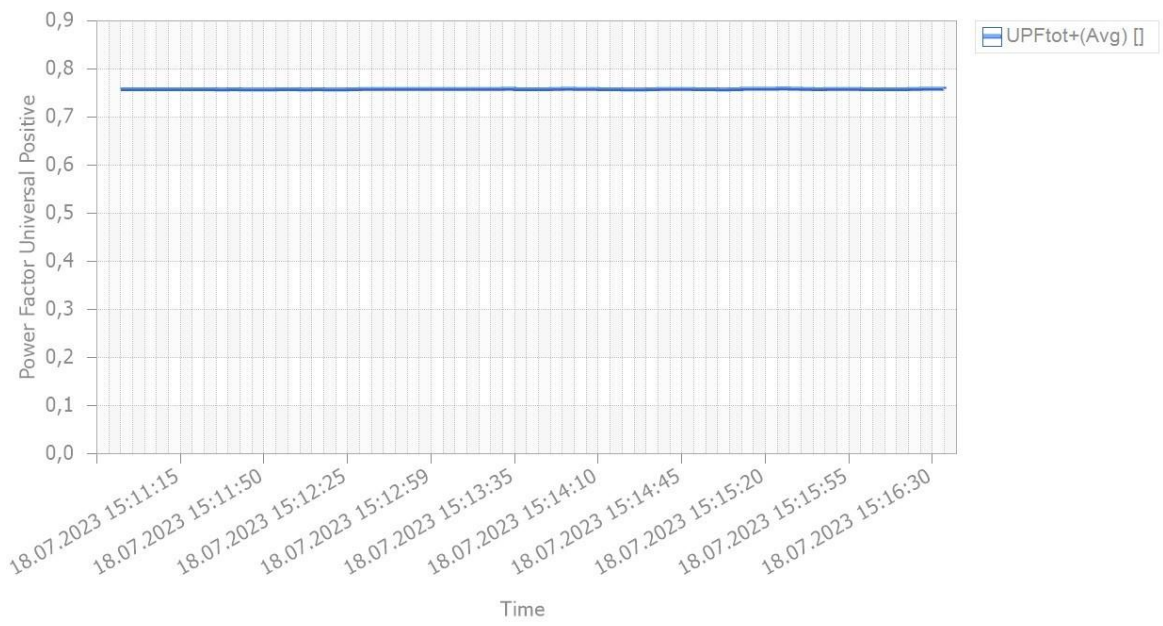
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



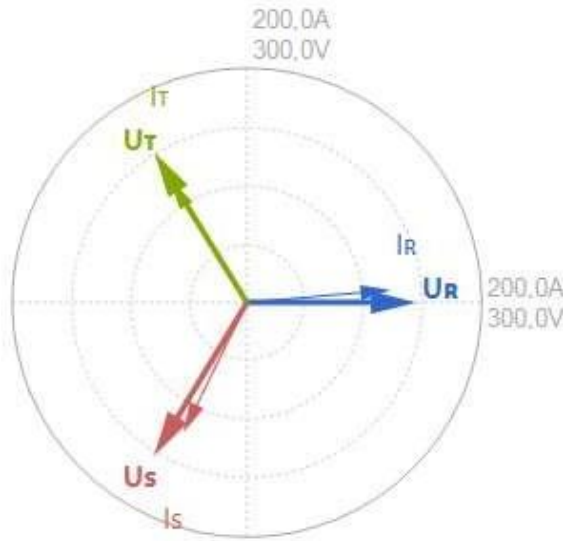
# Chiller 5 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	390,39	390,41	388,00

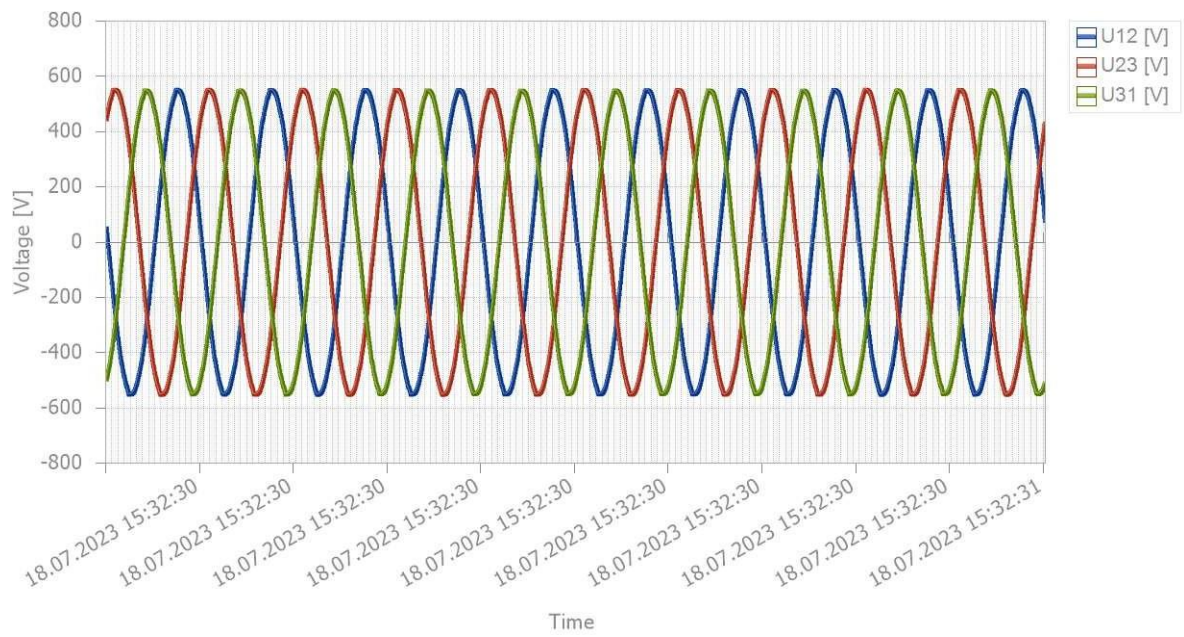
Item	R	S	T	N	Tot
Current [A]	129,72	129,65	129,88	107,53	
Load Factor [%]	99,85	99,79	99,97	82,76	
Active Power [kW]					83,51
Apparent Power [kVA]					87,88
Reactive Power [kvar]					NaN
Power Factor [%]					95,08
Frequency [Hz]					50,00

## Vector Diagram

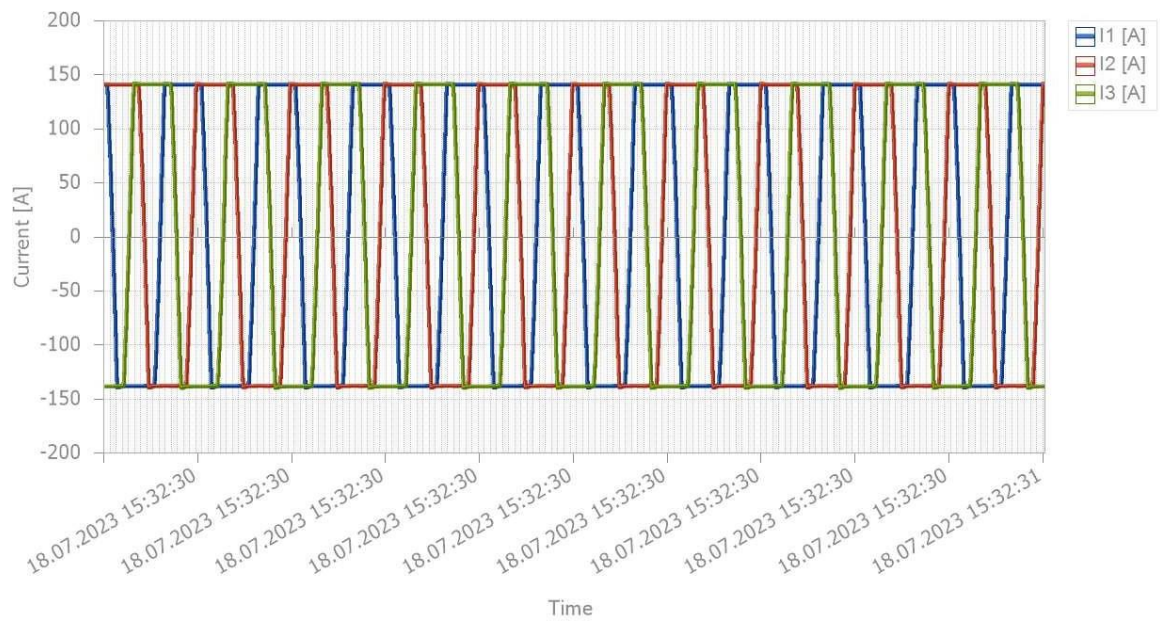


Item	Value	Angle
UR	216,78 V	0,00 °
US	229,66 V	-121,17 °
UT	225,86 V	121,61 °
IR	123,21 A	5,00 °
IS	123,18 A	-116,05 °
IT	123,47 A	122,02 °

## Voltage Waveform



## Current Waveform

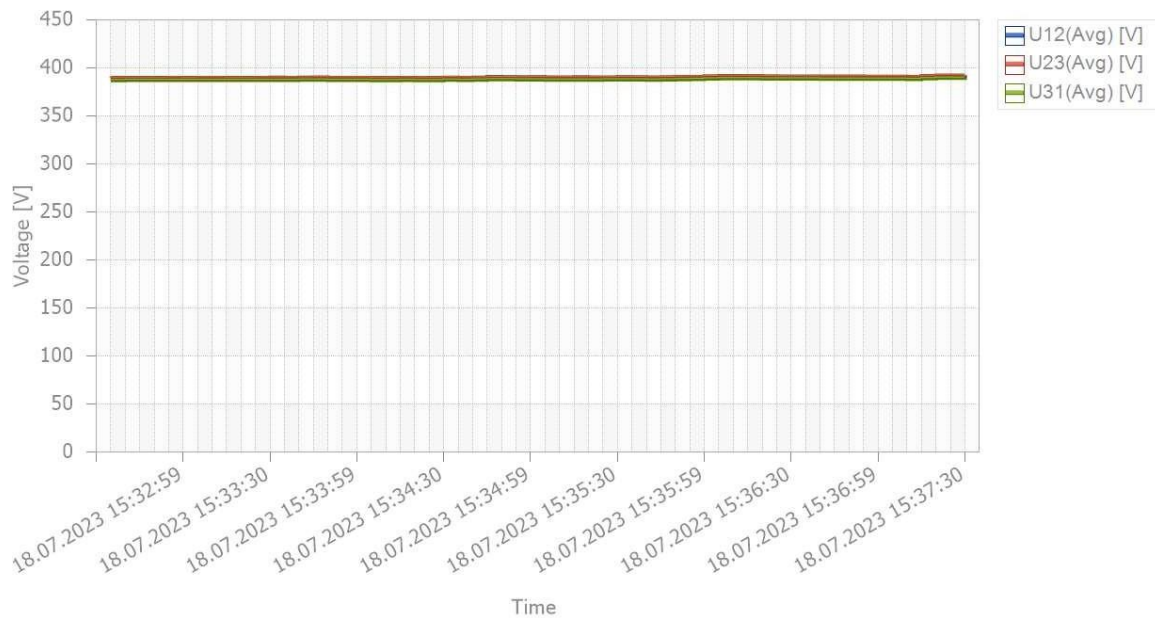




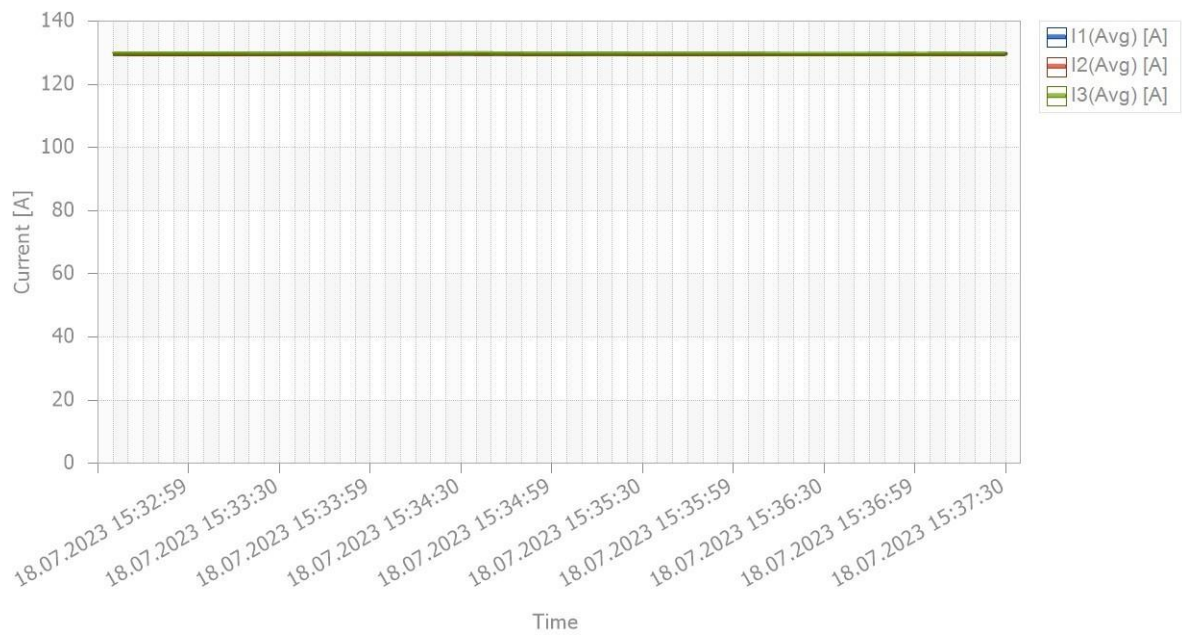
Item	Min	Time	Max	Time	Avg
UR [V]	217,17	18.07.2023 15:34:20	219,38	18.07.2023 15:37:20	218,00
US [V]	229,81	18.07.2023 15:35:10	230,92	18.07.2023 15:37:30	230,29
UT [V]	226,20	18.07.2023 15:34:20	227,72	18.07.2023 15:37:30	226,68
UR-S [V]	389,38	18.07.2023 15:34:20	392,15	18.07.2023 15:37:30	390,39
US-T [V]	389,50	18.07.2023 15:34:20	392,19	18.07.2023 15:37:30	390,41
UT-R [V]	387,06	18.07.2023 15:34:20	389,74	18.07.2023 15:37:30	388,00
IR [A]	129,53	18.07.2023 15:36:35	129,72	18.07.2023 15:33:45	129,63
IS [A]	129,48	18.07.2023 15:36:35	129,65	18.07.2023 15:34:30	129,55
IT [A]	129,68	18.07.2023 15:36:15	129,88	18.07.2023 15:33:45	129,78
IN [A]	106,85	18.07.2023 15:36:35	107,53	18.07.2023 15:33:45	107,19
P [kW]	82,89	18.07.2023 15:34:20	83,51	18.07.2023 15:37:30	83,11
Sv [kVA]	85,72	18.07.2023 15:36:15	87,88	18.07.2023 15:37:30	87,42
N [kvar]	NaN	N/A	NaN	N/A	NaN
PF	0,95	18.07.2023 15:34:25	0,97	18.07.2023 15:36:15	0,95
f [Hz]	49,97	18.07.2023 15:34:05	50,02	18.07.2023 15:36:45	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

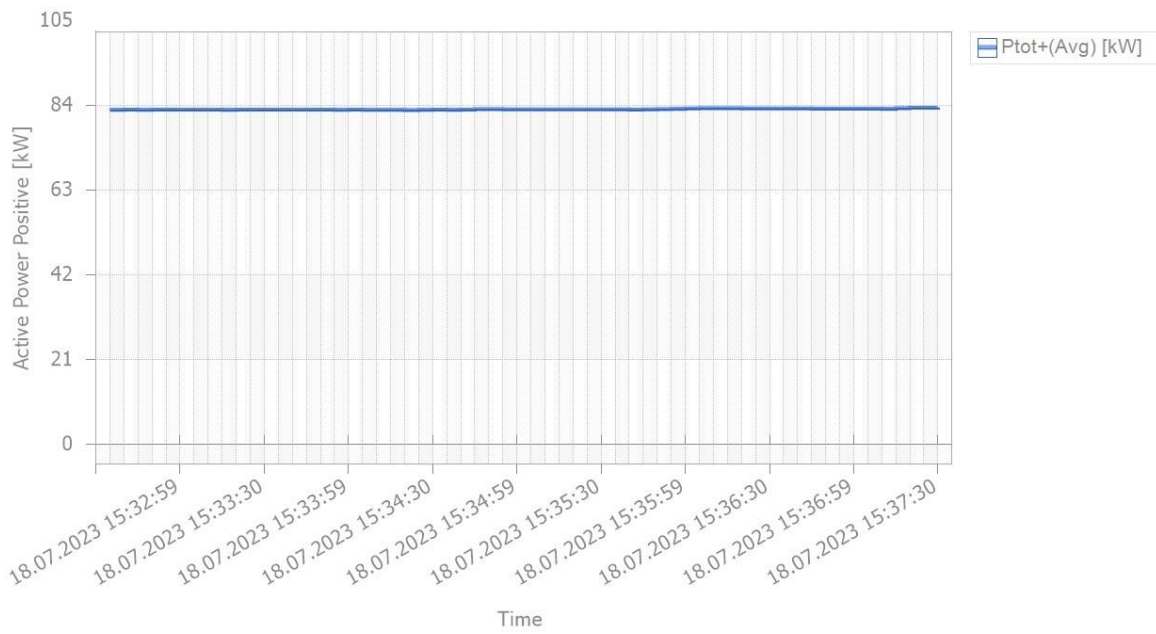
### Voltage Time Plot



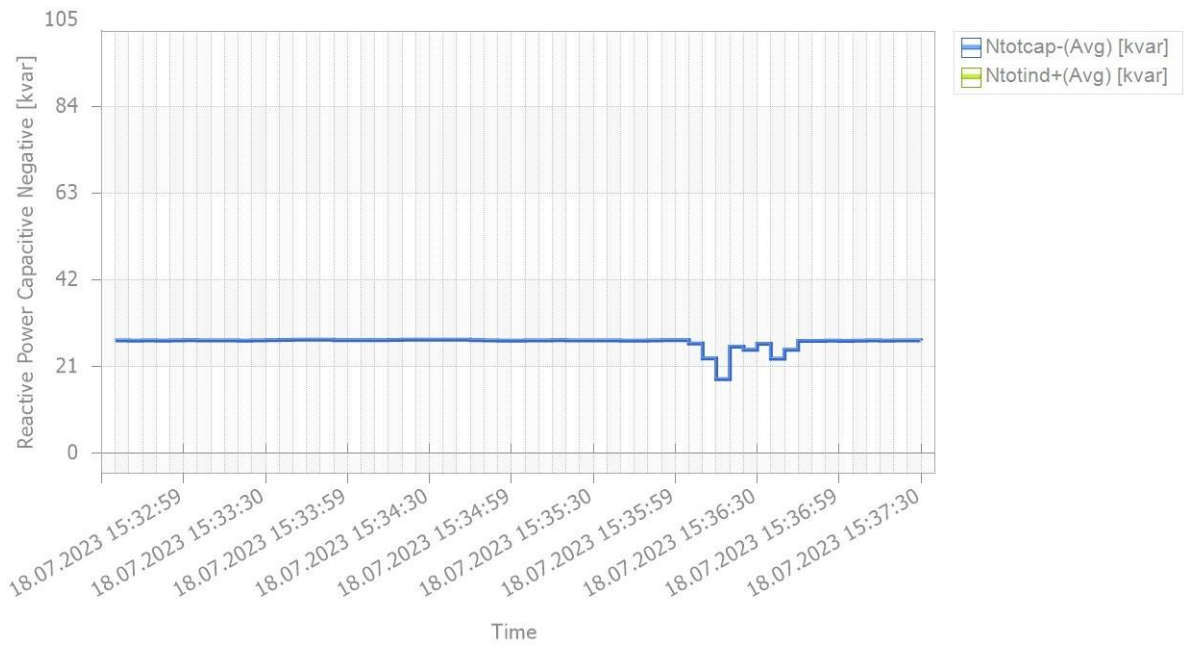
## Current Time Plot



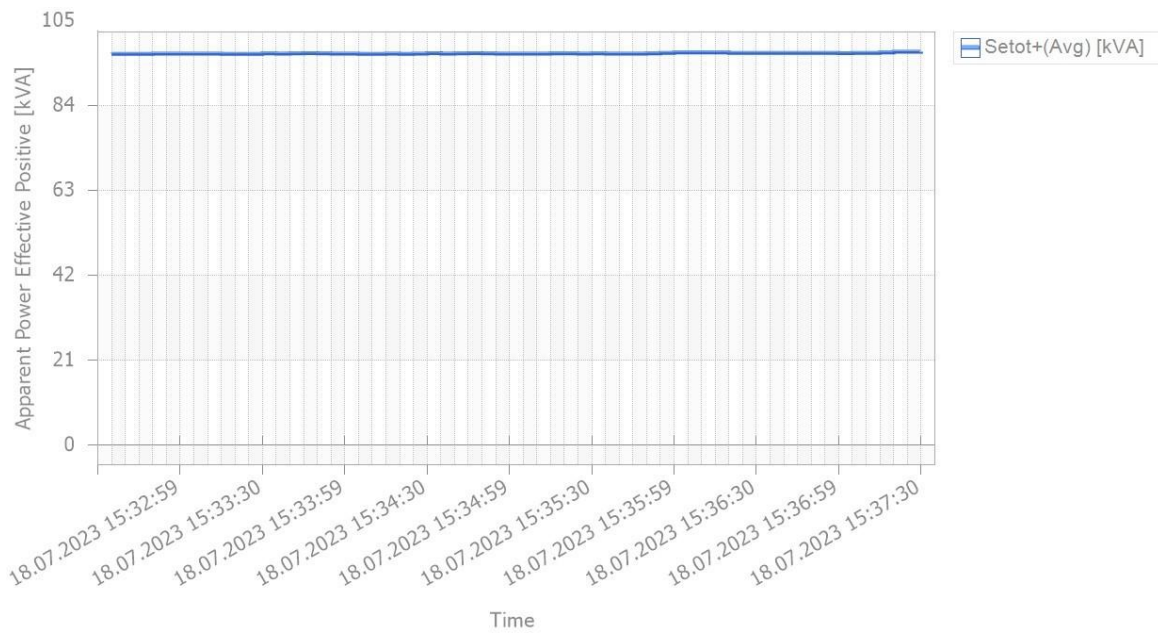
## Active Power Time Plot



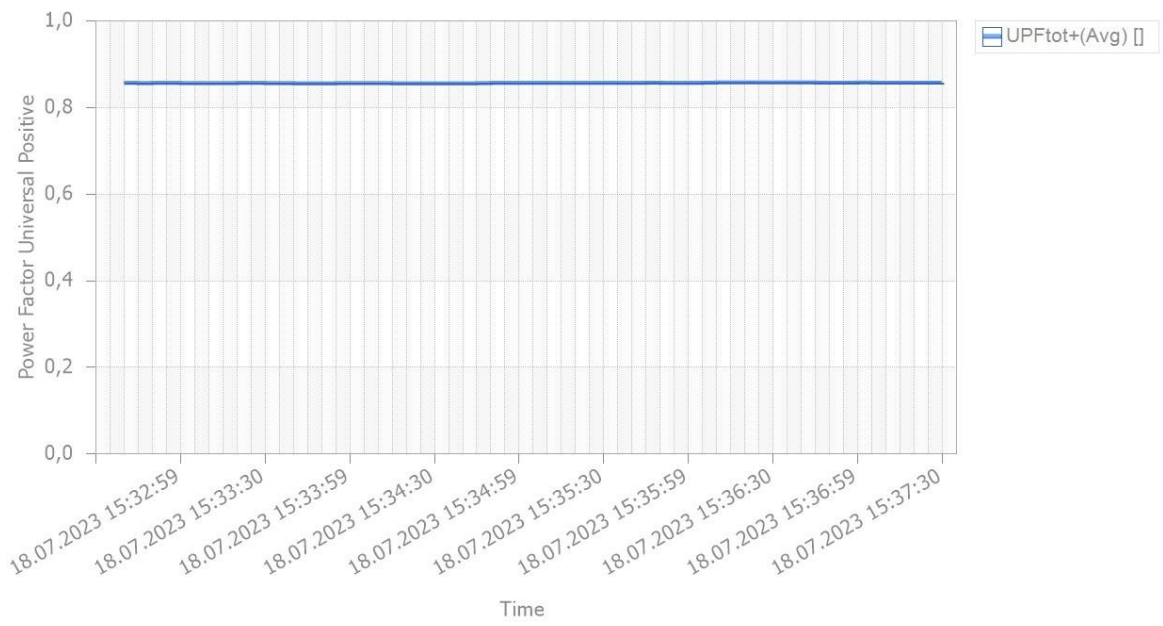
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



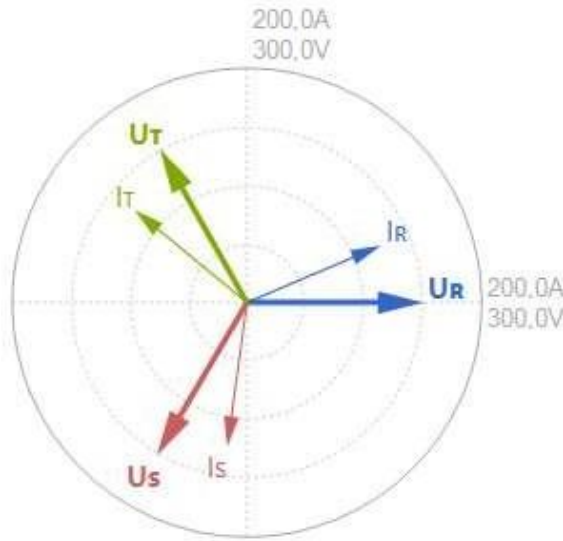
# G Blok Chiller 1 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	394,04	394,04	391,77

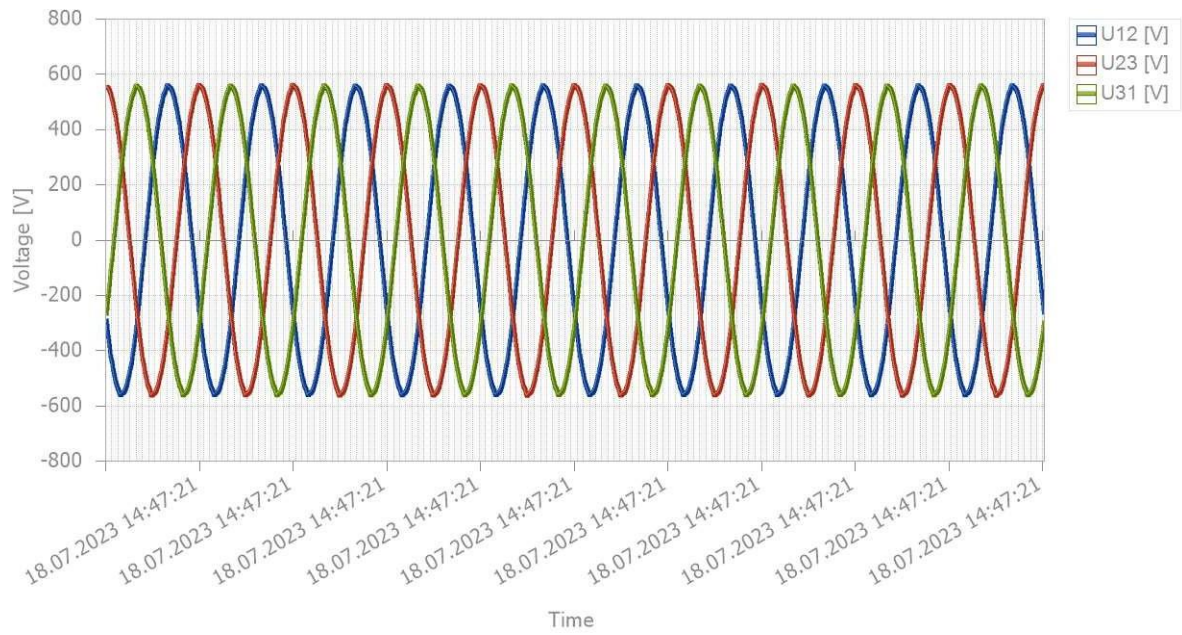
Item	R	S	T	N	Tot
Current [A]	133,06	132,92	133,11	119,42	
Load Factor [%]	99,95	99,84	99,98	89,69	
Active Power [kW]					78,65
Apparent Power [kVA]					90,66
Reactive Power [kvar]					NaN
Power Factor [%]					86,63
Frequency [Hz]					50,00

## Vector Diagram

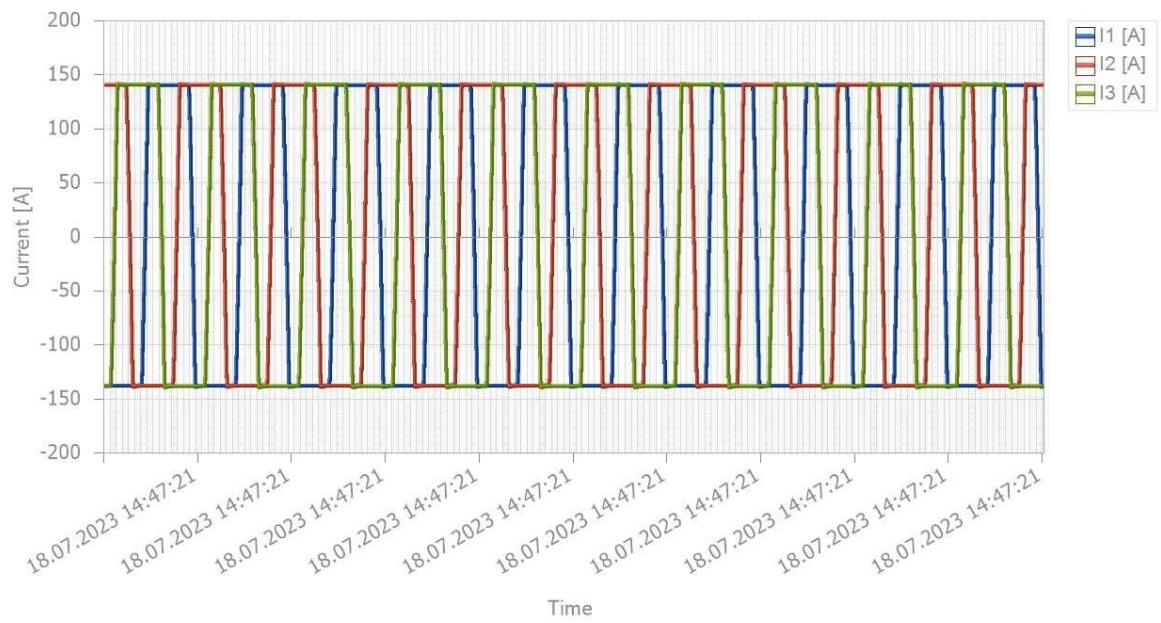


Item	Value	Angle
UR	225,65 V	0,00 °
US	227,17 V	-120,52 °
UT	226,84 V	119,49 °
IR	124,20 A	23,12 °
IS	124,16 A	-97,75 °
IT	124,44 A	140,47 °

## Voltage Waveform



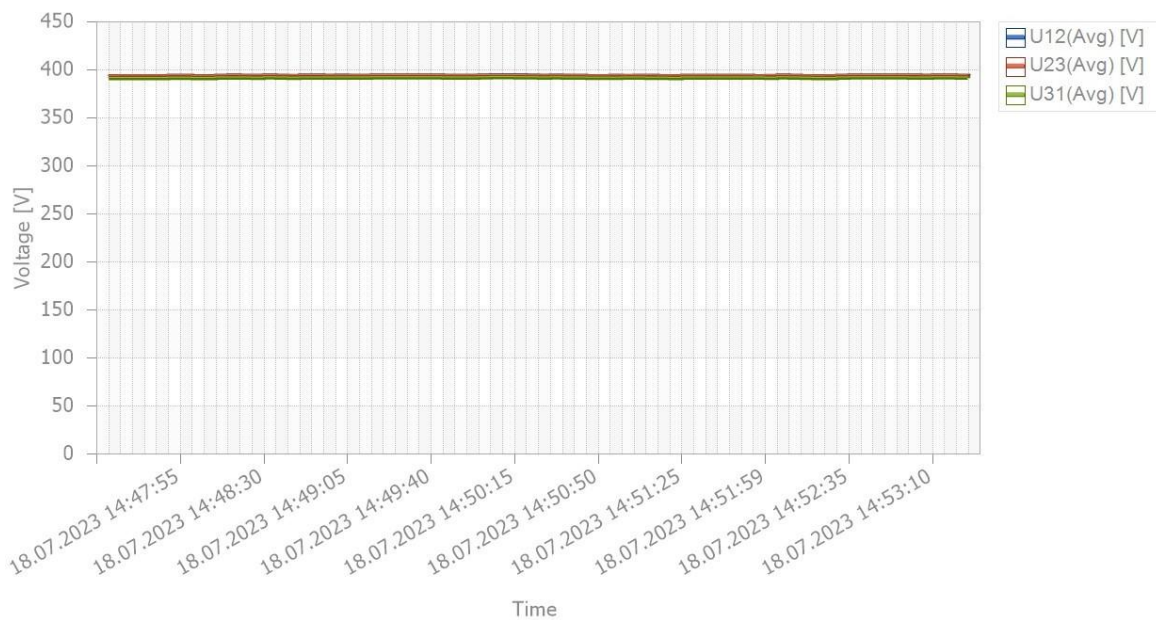
## Current Waveform



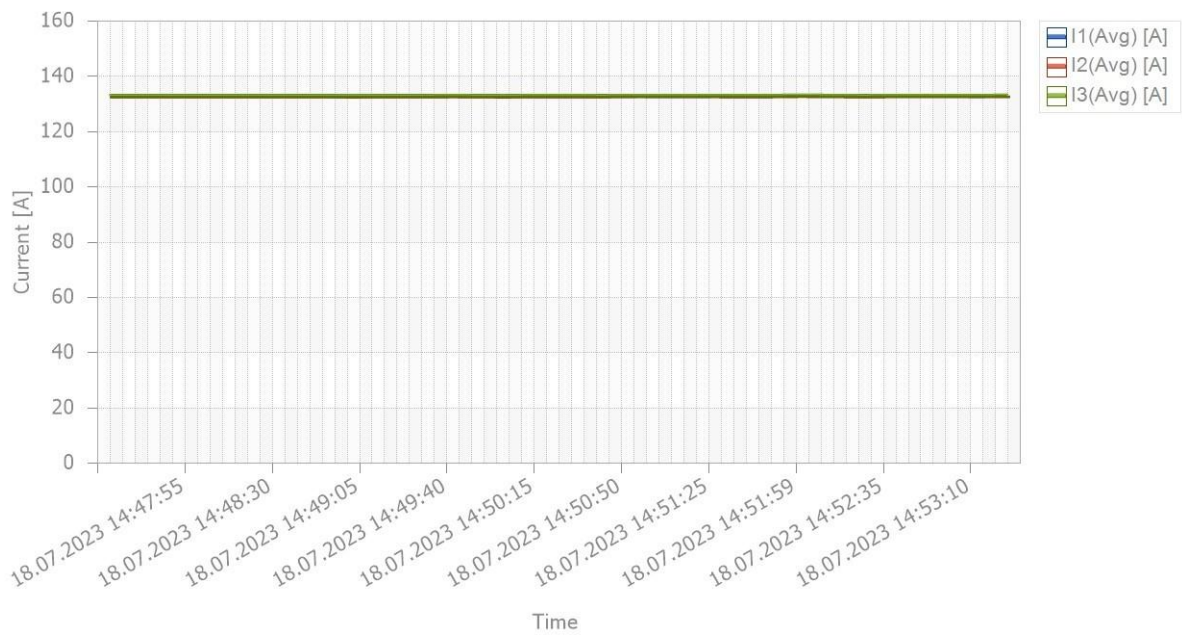
Item	Min	Time	Max	Time	Avg
UR [V]	225,78	18.07.2023 14:47:59	226,54	18.07.2023 14:50:05	226,15
US [V]	227,44	18.07.2023 14:47:25	227,94	18.07.2023 14:50:05	227,72
UT [V]	227,05	18.07.2023 14:52:20	227,54	18.07.2023 14:52:55	227,33
UR-S [V]	393,61	18.07.2023 14:47:59	394,56	18.07.2023 14:50:05	394,04
US-T [V]	393,62	18.07.2023 14:47:25	394,38	18.07.2023 14:50:05	394,04
UT-R [V]	391,21	18.07.2023 14:47:30	392,28	18.07.2023 14:50:05	391,77
IR [A]	132,91	18.07.2023 14:48:55	133,06	18.07.2023 14:51:59	132,97
IS [A]	132,73	18.07.2023 14:49:59	132,92	18.07.2023 14:51:59	132,81
IT [A]	132,92	18.07.2023 14:49:15	133,11	18.07.2023 14:53:25	133,01
IN [A]	118,99	18.07.2023 14:52:25	119,42	18.07.2023 14:47:25	119,20
P [kW]	78,24	18.07.2023 14:51:59	78,65	18.07.2023 14:49:59	78,44
Sv [kVA]	90,43	18.07.2023 14:47:59	90,66	18.07.2023 14:52:05	90,55
N [kvar]	NaN	N/A	NaN	N/A	NaN
PF	0,86	18.07.2023 14:51:59	0,87	18.07.2023 14:49:59	0,87
f [Hz]	49,97	18.07.2023 14:52:59	50,03	18.07.2023 14:49:59	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

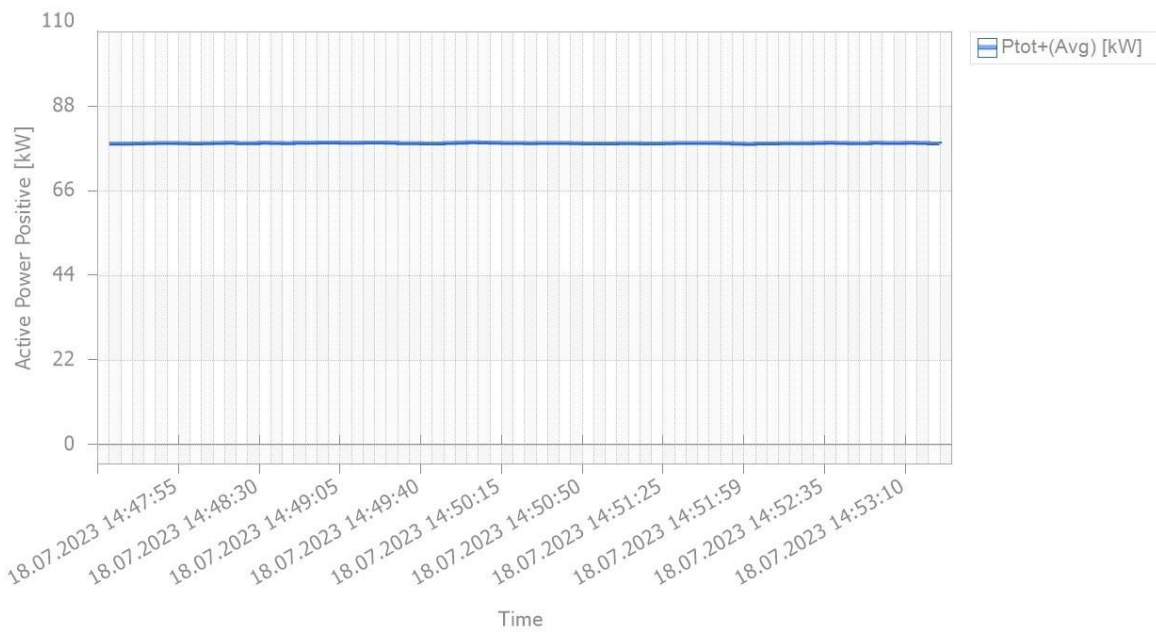
### Voltage Time Plot



## Current Time Plot

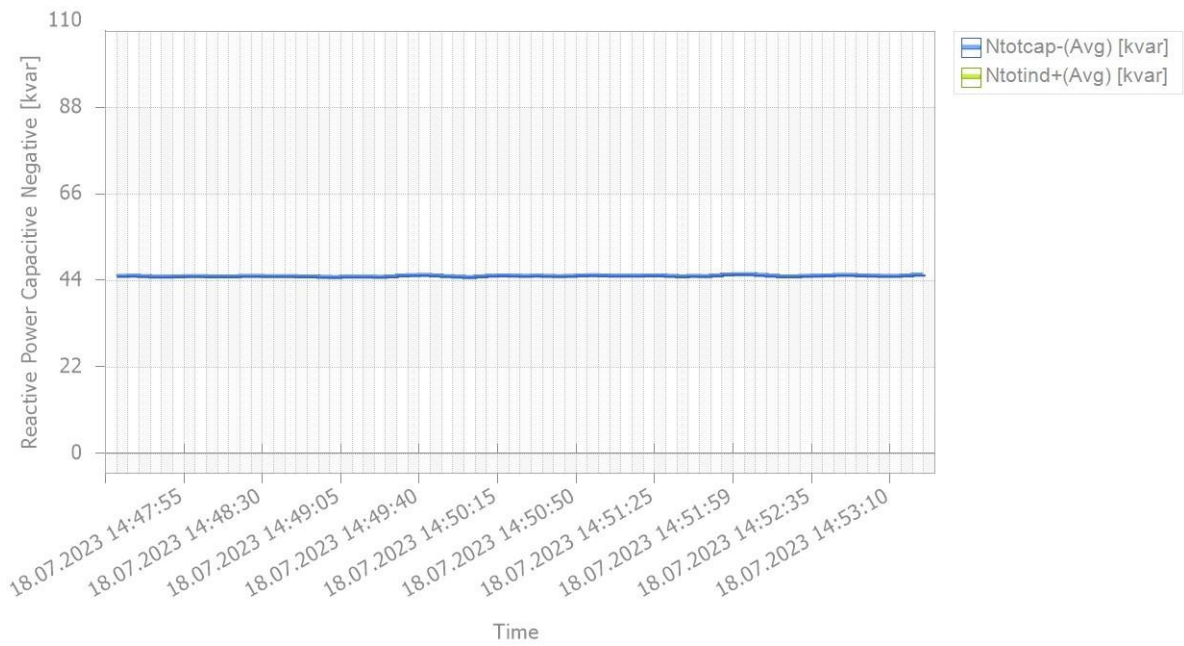


## Active Power Time Plot

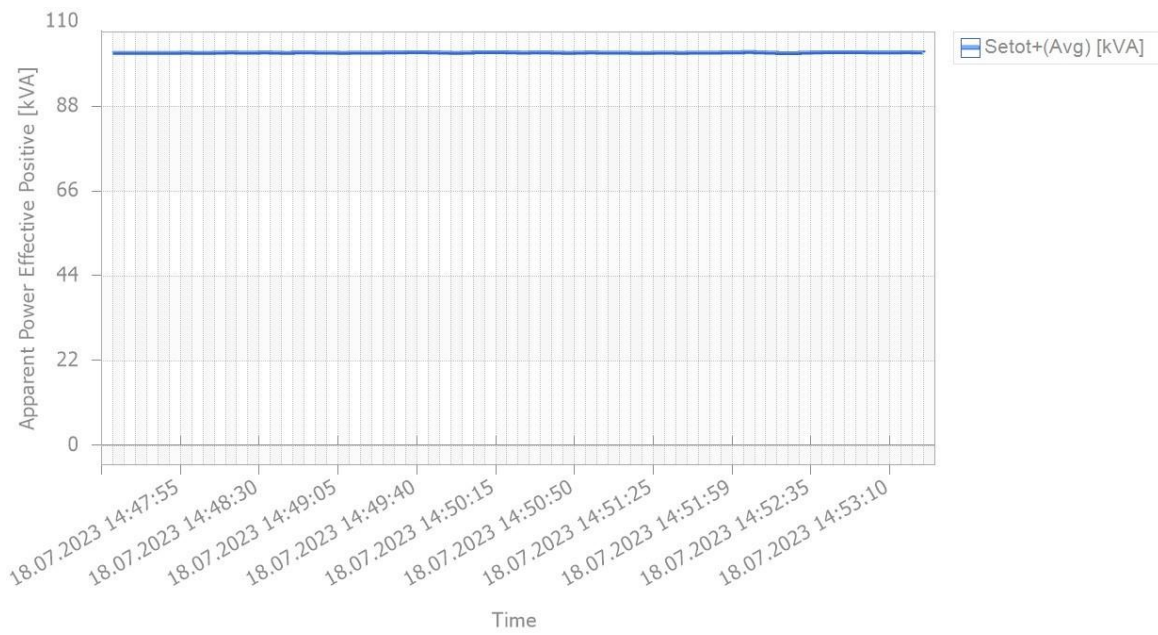




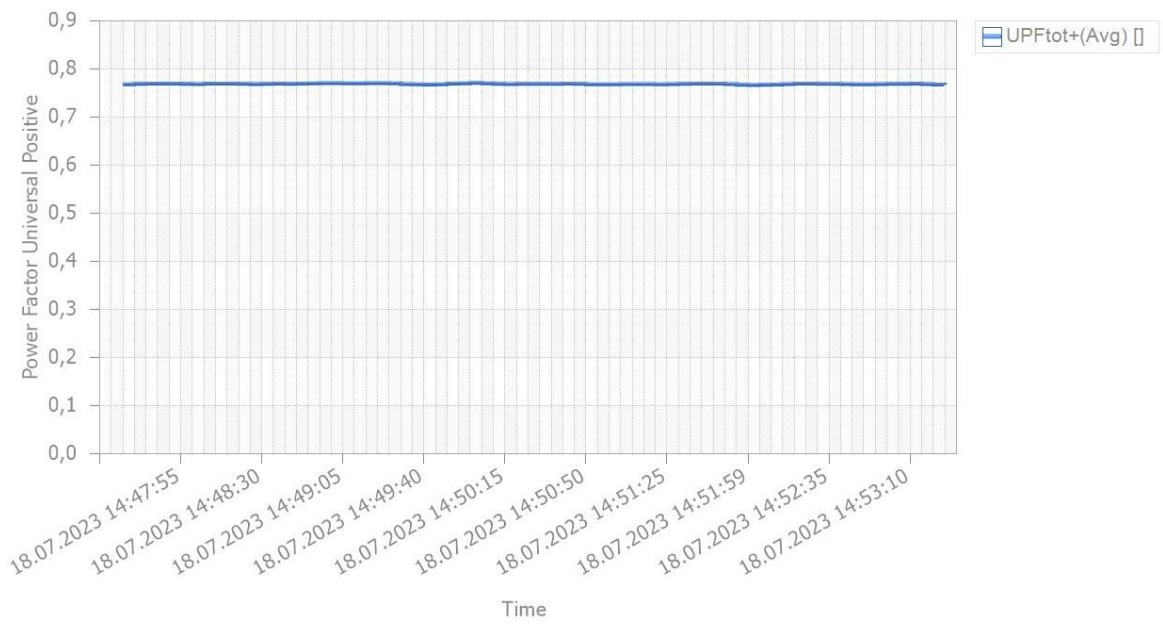
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



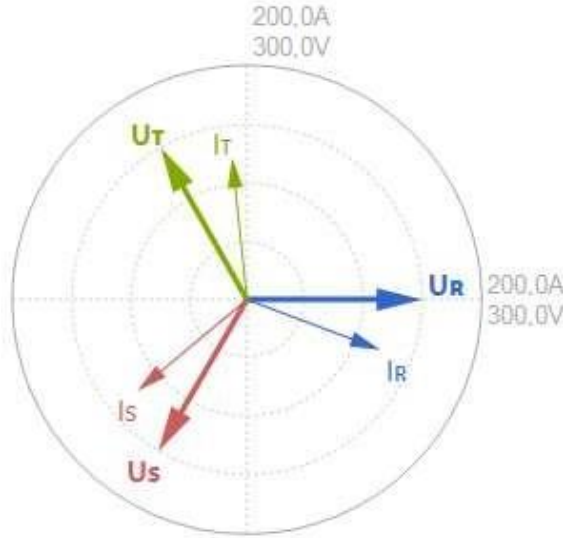
# G Blok Sirkülasyon Pompaları Ana TMSŞ Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	389,70	389,55	387,10

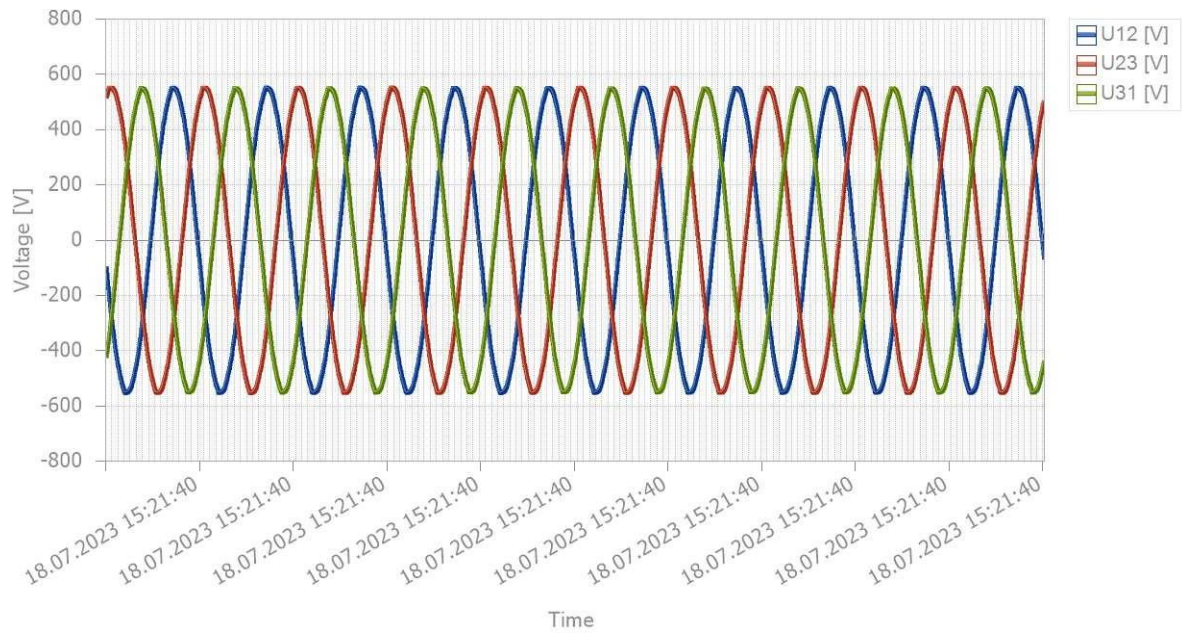
Item	R	S	T	N	Tot
Current [A]	125,97	126,02	126,33	93,60	
Load Factor [%]	99,69	99,73	99,98	74,08	
Active Power [kW]					76,36
Apparent Power [kVA]					84,94
Reactive Power [kvar]					37,37
Power Factor [%]					89,88
Frequency [Hz]					50,00

## Vector Diagram

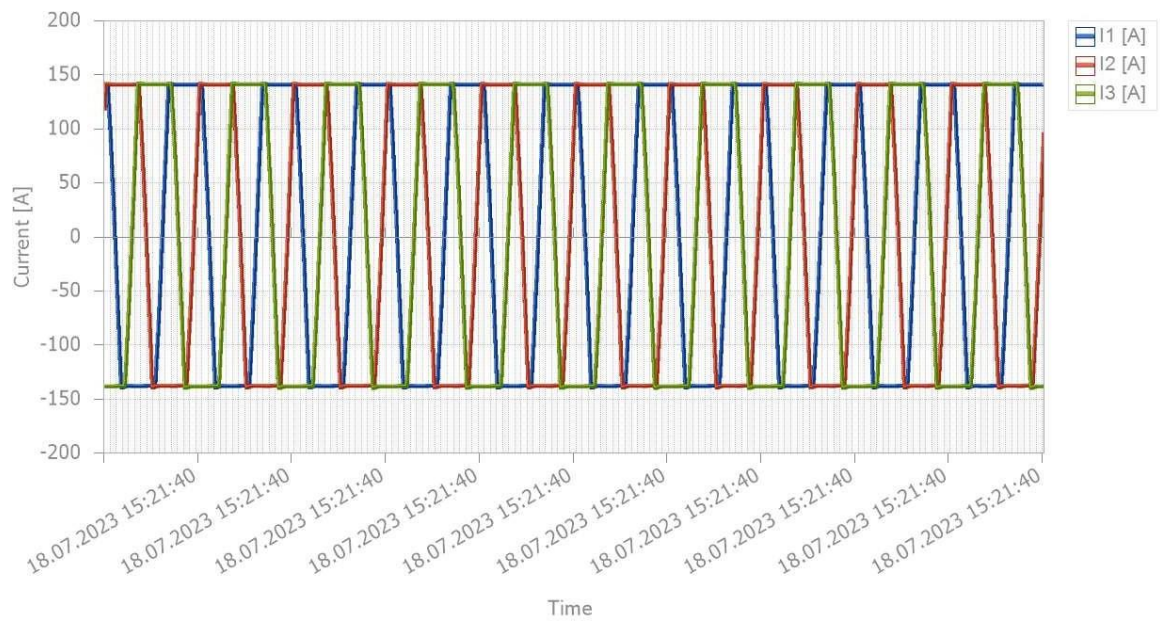


Item	Value	Angle
UR	224,02 V	0,00 °
US	225,03 V	-120,27 °
UT	223,81 V	119,49 °
IR	121,42 A	-20,68 °
IS	121,45 A	-140,11 °
IT	121,77 A	95,94 °

## Voltage Waveform



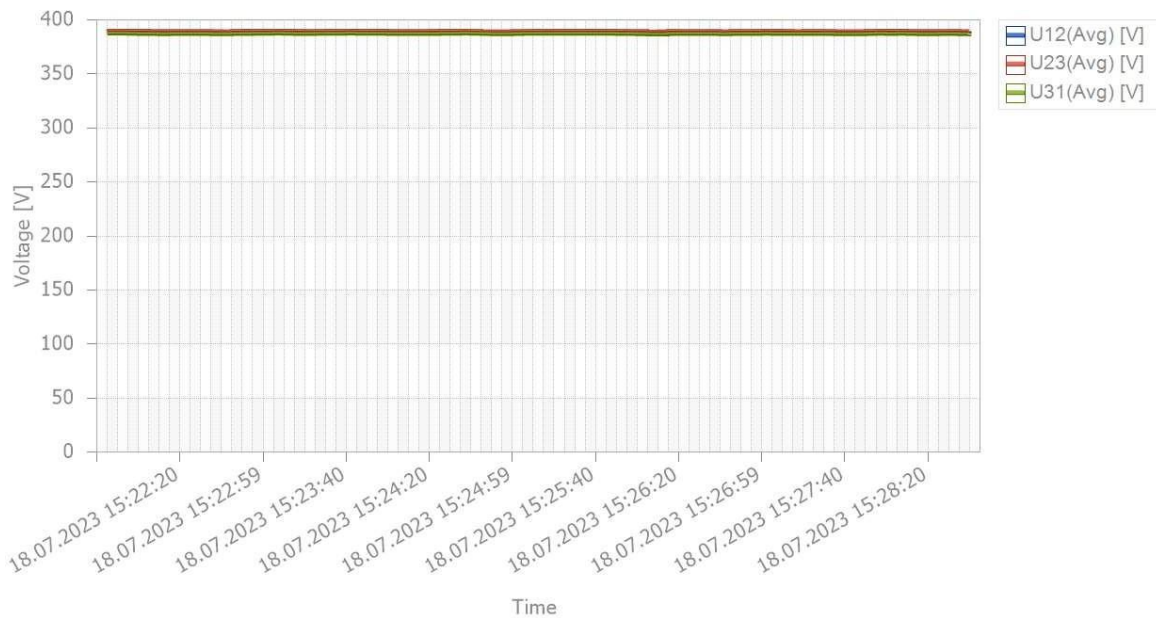
## Current Waveform



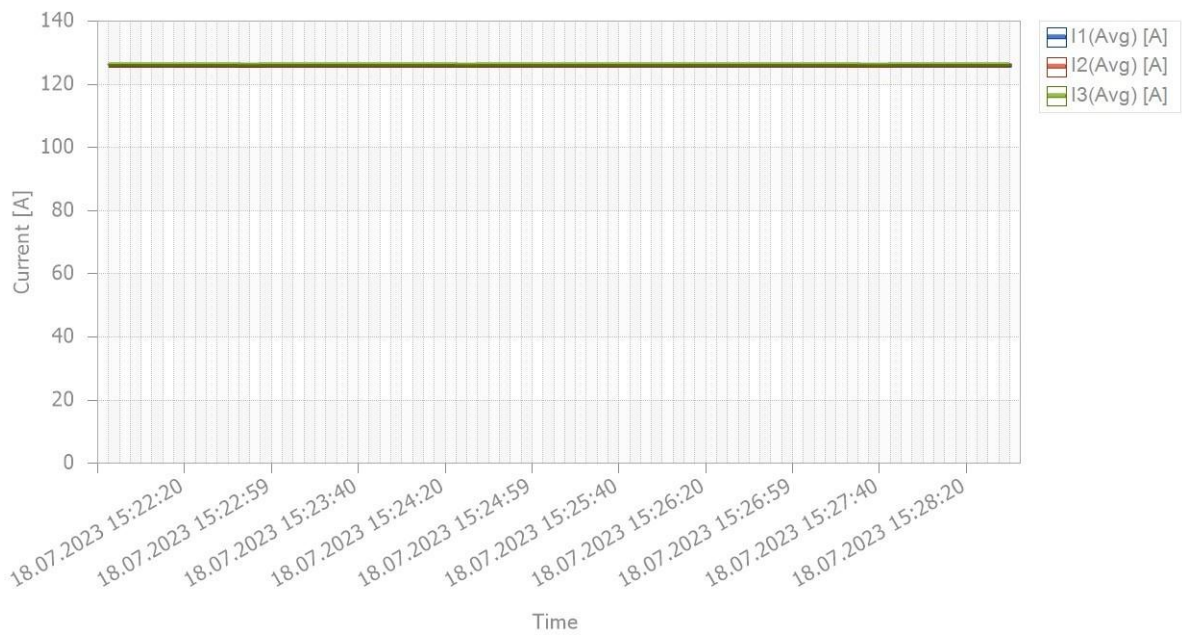
Item	Min	Time	Max	Time	Avg
UR [V]	223,94	18.07.2023 15:26:05	224,39	18.07.2023 15:23:40	224,18
US [V]	224,98	18.07.2023 15:26:05	225,43	18.07.2023 15:23:40	225,24
UT [V]	223,76	18.07.2023 15:26:05	224,18	18.07.2023 15:24:35	223,99
UR-S [V]	389,26	18.07.2023 15:26:05	390,09	18.07.2023 15:23:40	389,70
US-T [V]	389,13	18.07.2023 15:26:05	389,82	18.07.2023 15:24:35	389,55
UT-R [V]	386,68	18.07.2023 15:26:10	387,40	18.07.2023 15:24:35	387,10
IR [A]	125,89	18.07.2023 15:22:50	125,97	18.07.2023 15:26:25	125,94
IS [A]	125,91	18.07.2023 15:22:59	126,02	18.07.2023 15:26:50	125,97
IT [A]	126,27	18.07.2023 15:24:25	126,33	18.07.2023 15:23:59	126,31
IN [A]	93,35	18.07.2023 15:22:59	93,60	18.07.2023 15:26:50	93,50
P [kW]	76,20	18.07.2023 15:24:10	76,36	18.07.2023 15:25:35	76,28
Sv [kVA]	84,78	18.07.2023 15:26:05	84,94	18.07.2023 15:27:55	84,87
N [kvar]	37,02	18.07.2023 15:24:50	37,37	18.07.2023 15:23:40	37,20
PF	0,90	18.07.2023 15:23:40	0,90	18.07.2023 15:24:50	0,90
f [Hz]	49,98	18.07.2023 15:27:25	50,01	18.07.2023 15:25:25	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

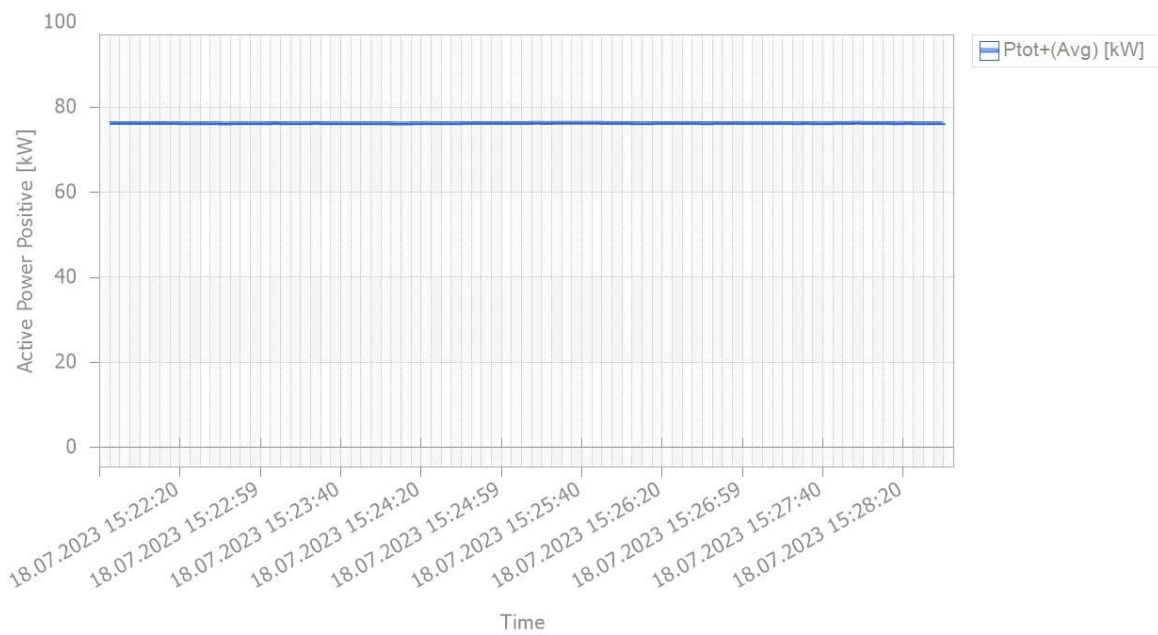
### Voltage Time Plot



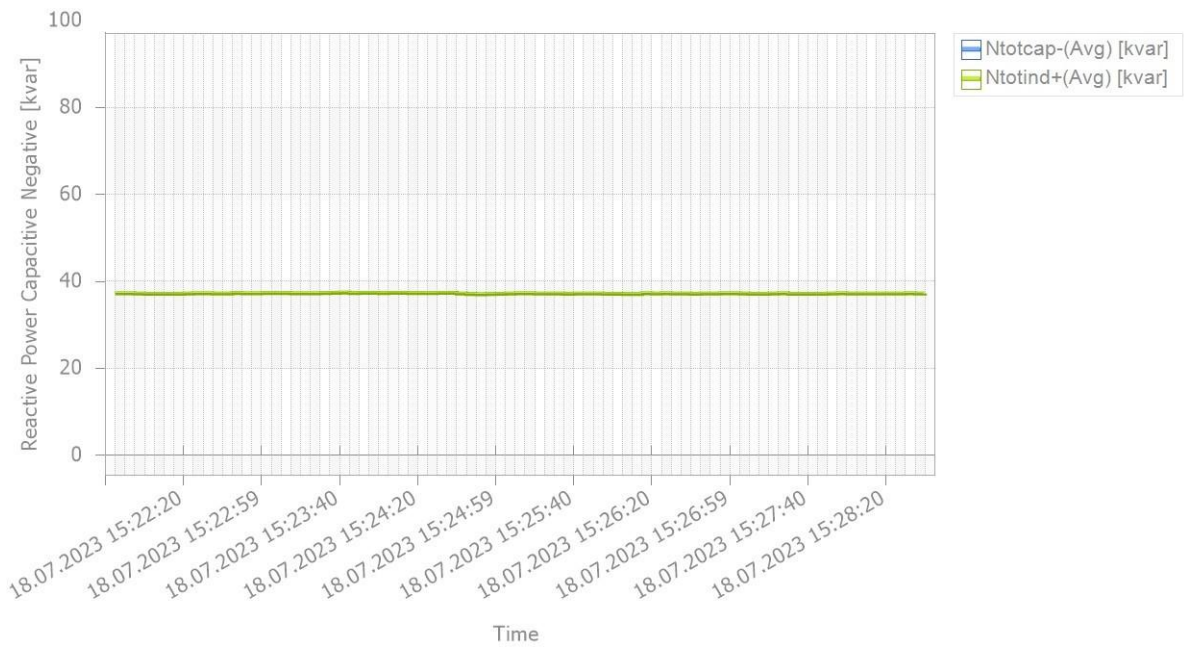
## Current Time Plot



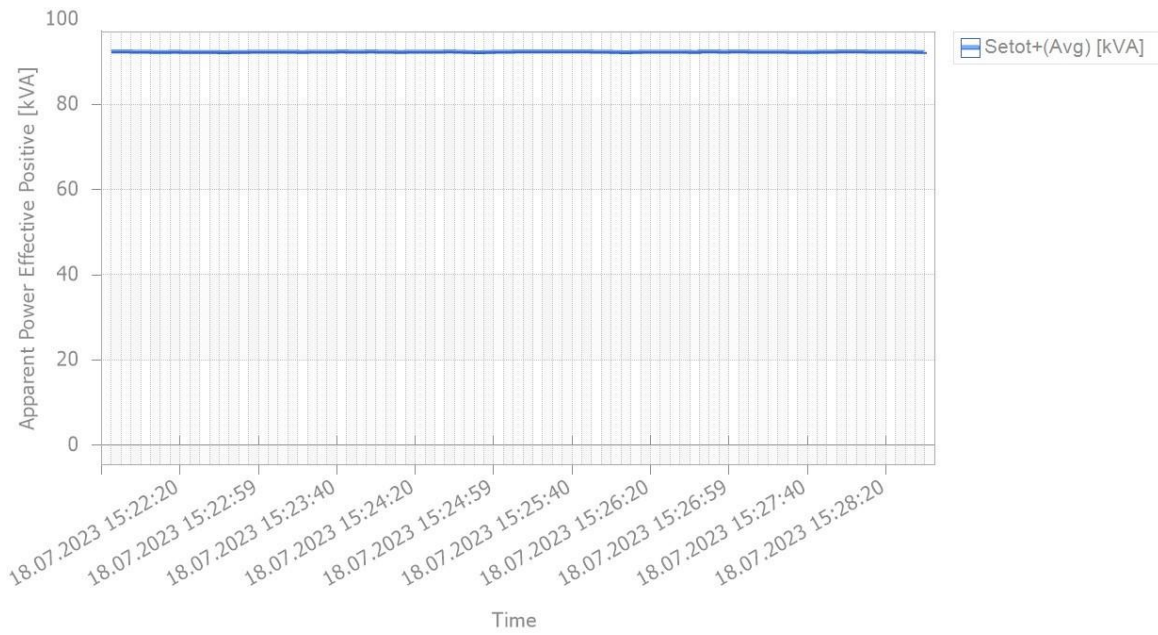
## Active Power Time Plot



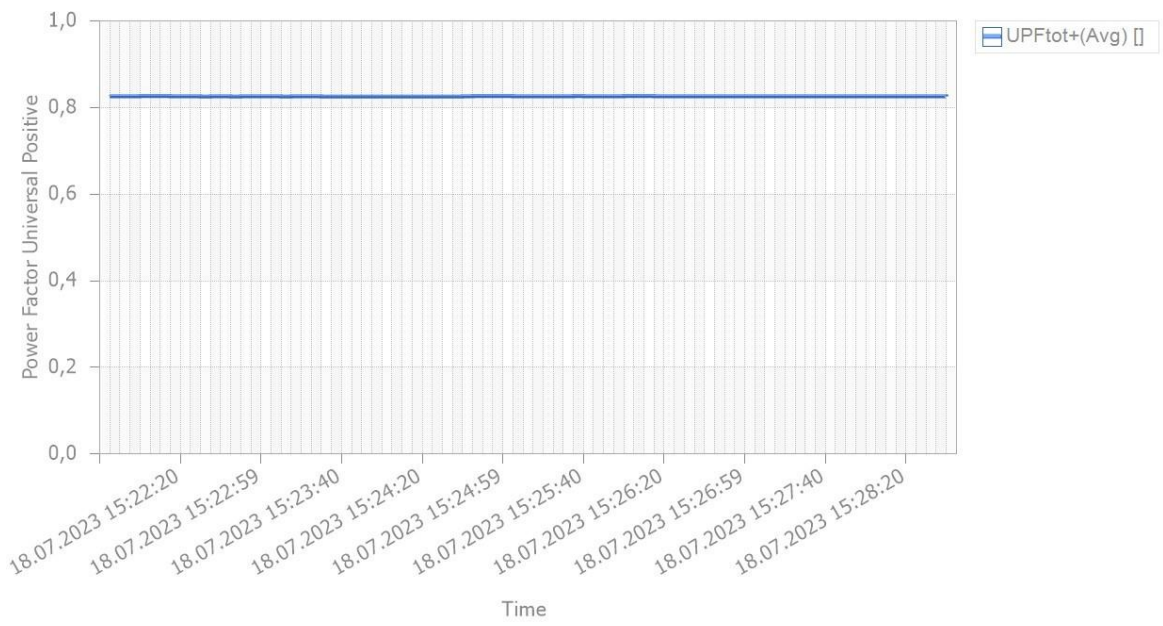
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot





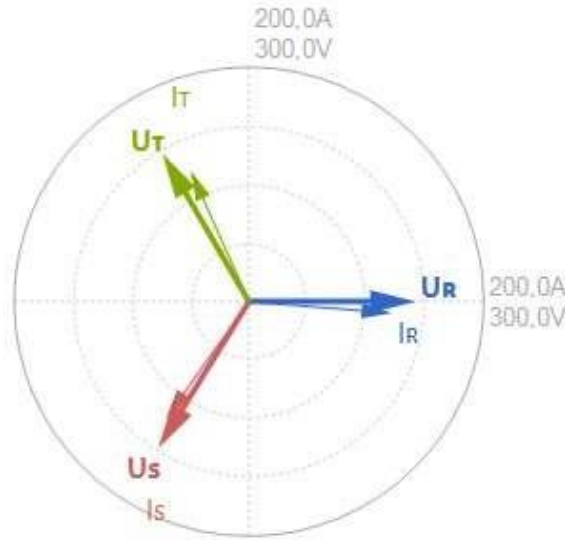
# Güzel Sanatlar Fakültesi Chiller 1 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	379,15	377,30	375,30

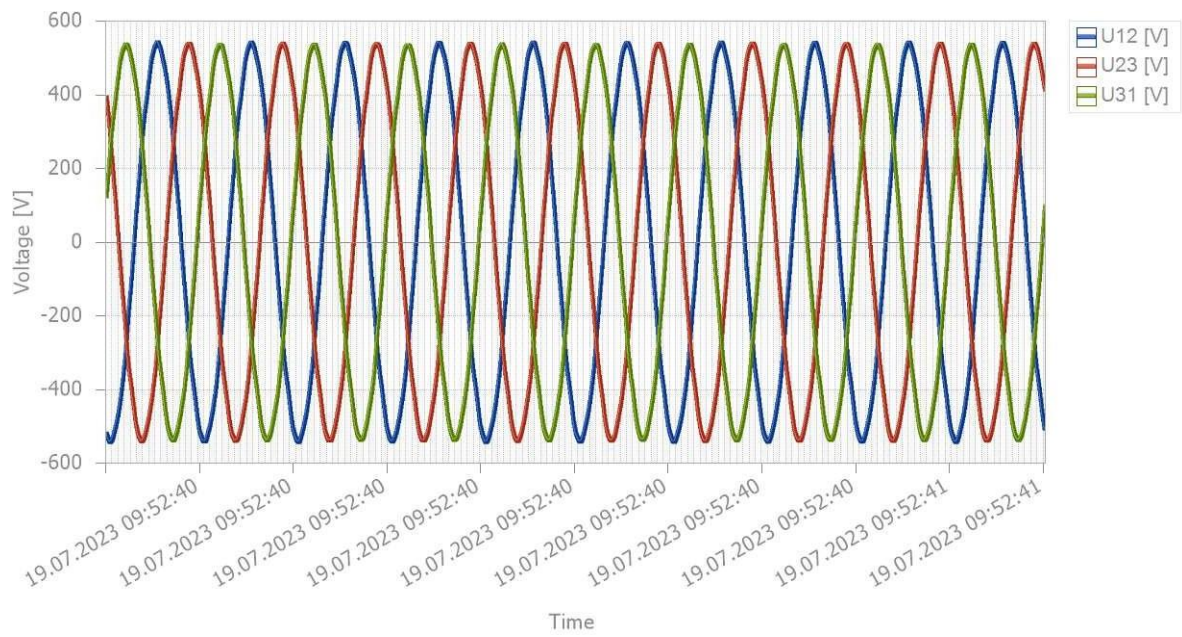
Item	R	S	T	N	Tot
Current [A]	128,71	128,47	128,88	104,76	
Load Factor [%]	99,83	99,65	99,96	81,25	
Active Power [kW]					80,19
Apparent Power [kVA]					84,08
Reactive Power [kvar]					25,38
Power Factor [%]					97,83
Frequency [Hz]					49,97

## Vector Diagram

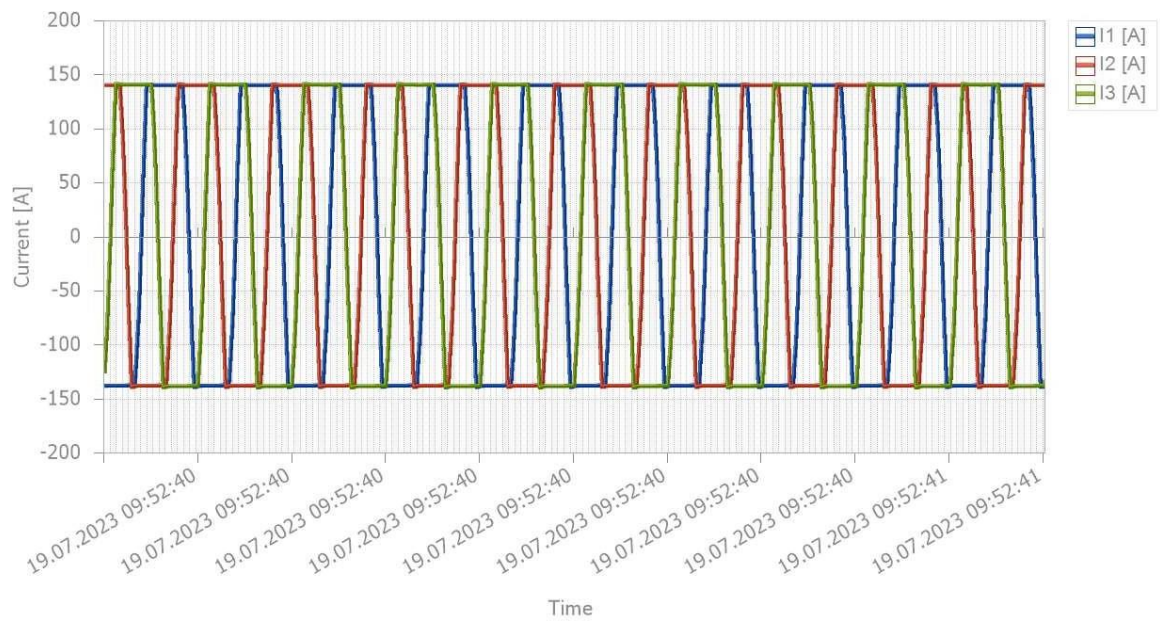


Item	Value	Angle
UR	213,43 V	0,00 °
US	220,60 V	-121,74 °
UT	219,58 V	120,26 °
IR	122,31 A	-4,61 °
IS	122,16 A	-125,33 °
IT	122,49 A	113,94 °

## Voltage Waveform



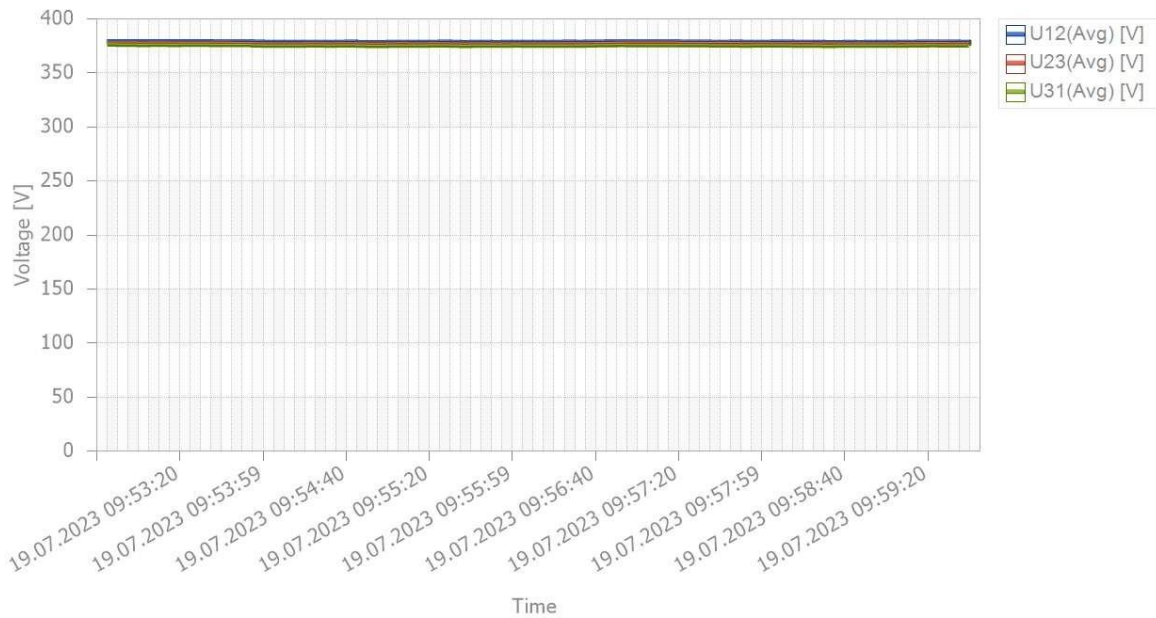
## Current Waveform



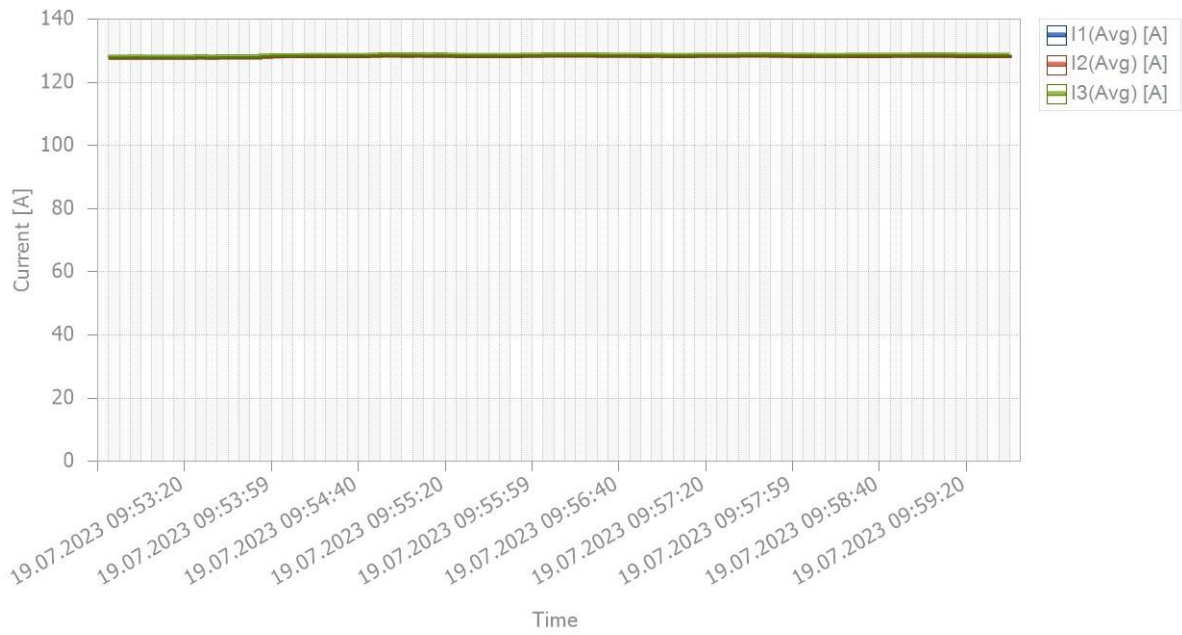
Item	Min	Time	Max	Time	Avg
UR [V]	212,83	19.07.2023 09:54:50	213,75	19.07.2023 09:53:10	213,23
US [V]	220,41	19.07.2023 09:55:35	220,92	19.07.2023 09:53:05	220,69
UT [V]	219,28	19.07.2023 09:58:30	219,92	19.07.2023 09:52:45	219,57
UR-S [V]	378,68	19.07.2023 09:54:50	379,72	19.07.2023 09:53:05	379,15
US-T [V]	376,84	19.07.2023 09:54:50	377,87	19.07.2023 09:52:45	377,30
UT-R [V]	374,82	19.07.2023 09:54:50	376,05	19.07.2023 09:52:45	375,30
IR [A]	128,05	19.07.2023 09:53:10	128,71	19.07.2023 09:54:50	128,53
IS [A]	127,74	19.07.2023 09:53:05	128,47	19.07.2023 09:56:10	128,26
IT [A]	128,06	19.07.2023 09:53:10	128,88	19.07.2023 09:54:50	128,64
IN [A]	102,16	19.07.2023 09:53:10	104,76	19.07.2023 09:54:50	103,99
P [kW]	79,80	19.07.2023 09:52:59	80,19	19.07.2023 09:56:50	80,05
Sv [kVA]	80,46	19.07.2023 09:55:35	84,08	19.07.2023 09:57:40	81,86
N [kvar]	0,33	19.07.2023 09:55:50	25,38	19.07.2023 09:53:10	15,18
PF	0,95	19.07.2023 09:57:40	0,99	19.07.2023 09:55:35	0,98
f [Hz]	49,95	19.07.2023 09:54:50	50,01	19.07.2023 09:59:40	49,97

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

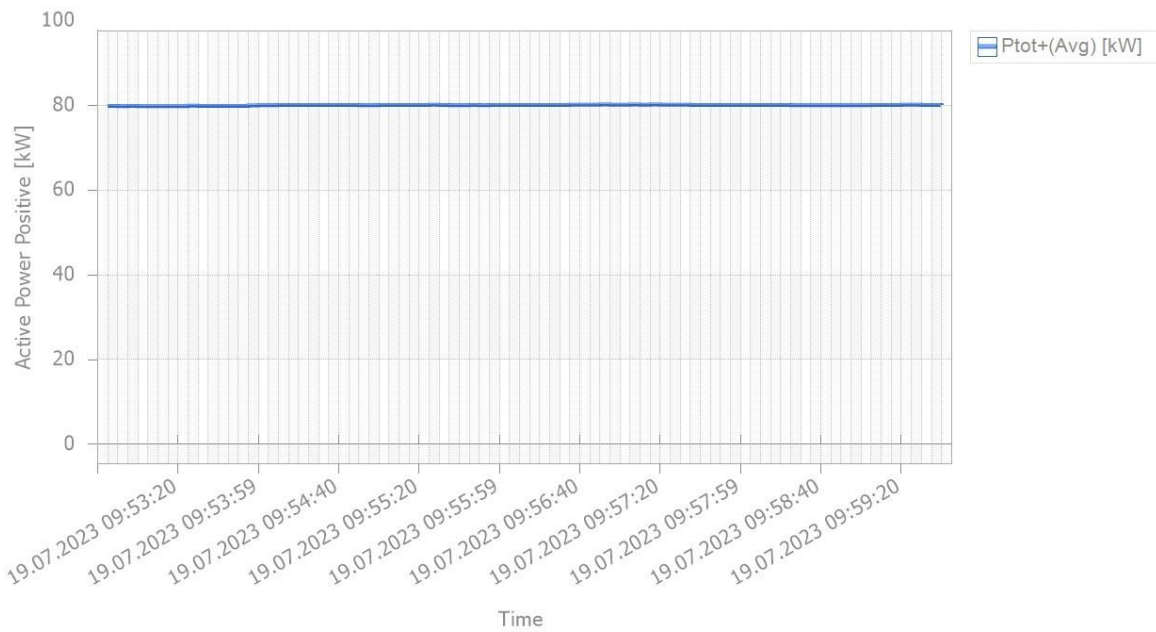
### Voltage Time Plot



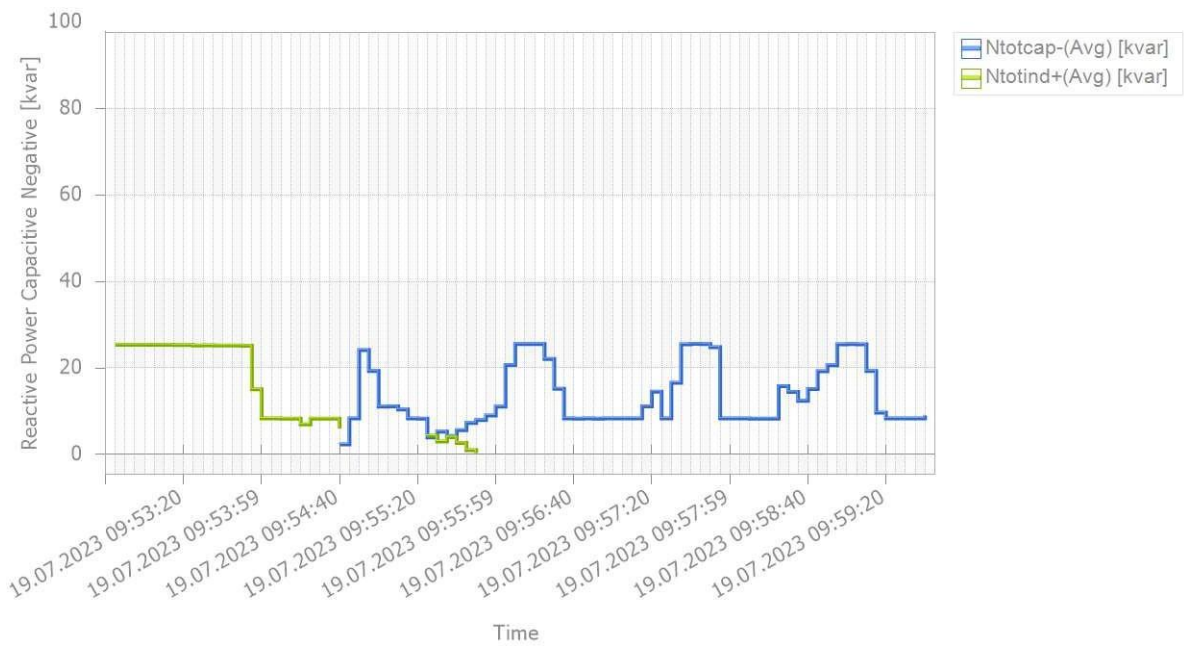
## Current Time Plot



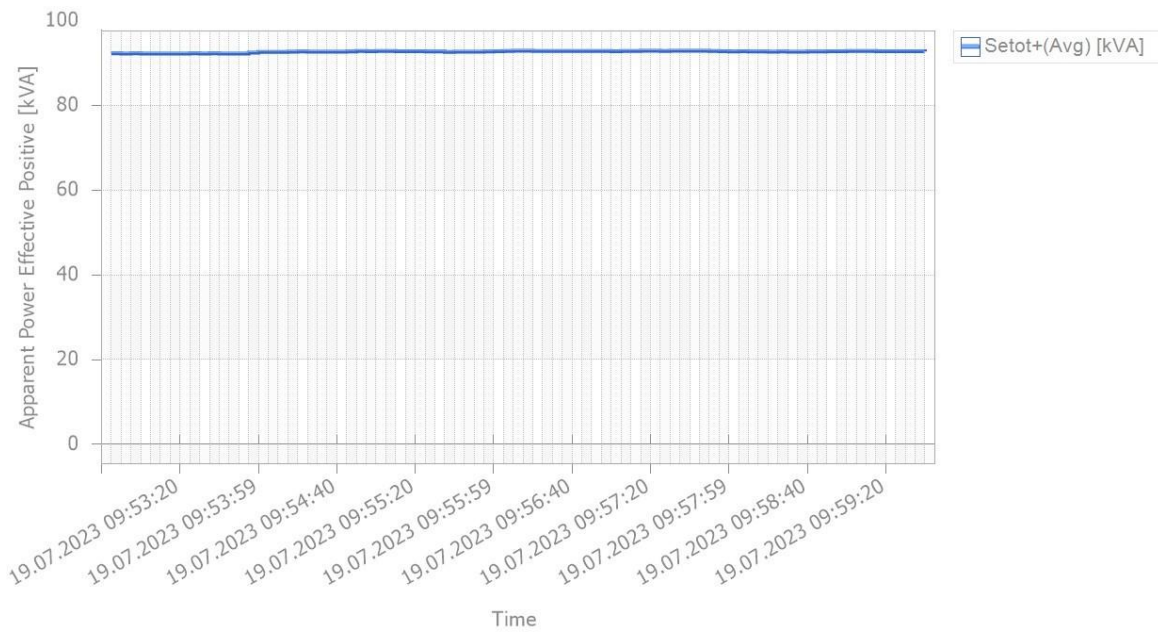
## Active Power Time Plot



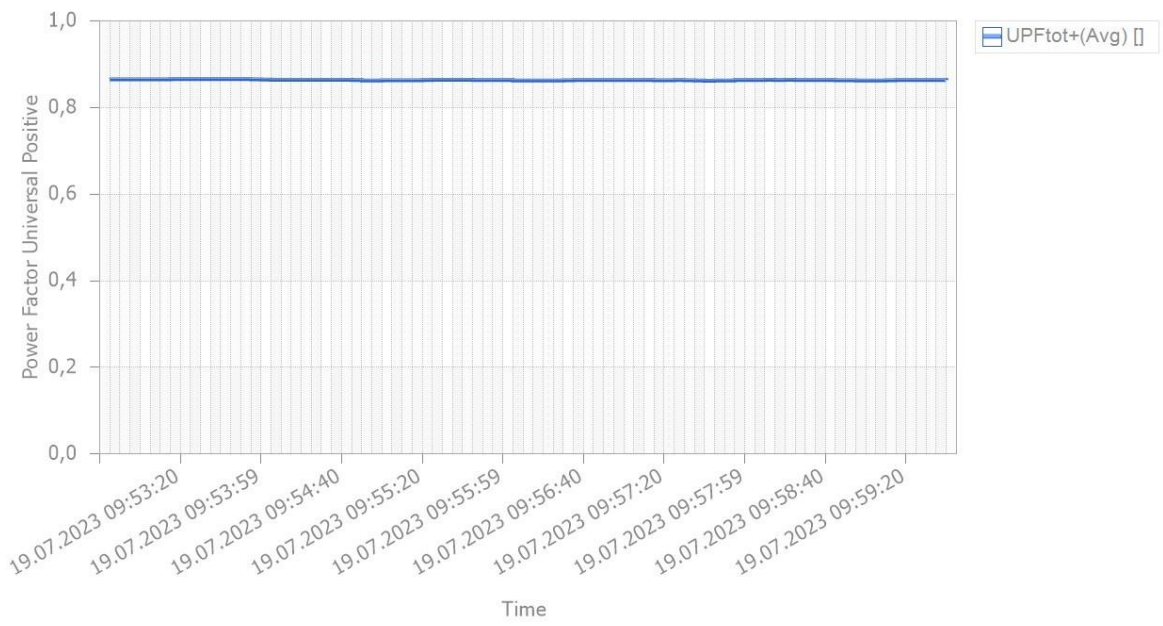
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



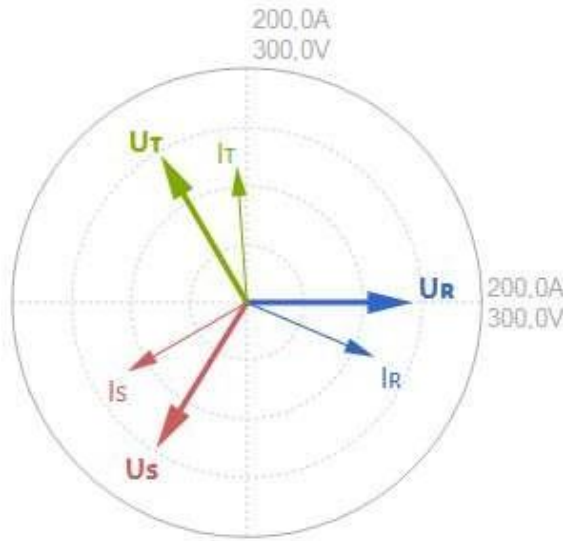
# Sanatlar Fakültesi Chiller 2 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	378,72	376,80	374,98

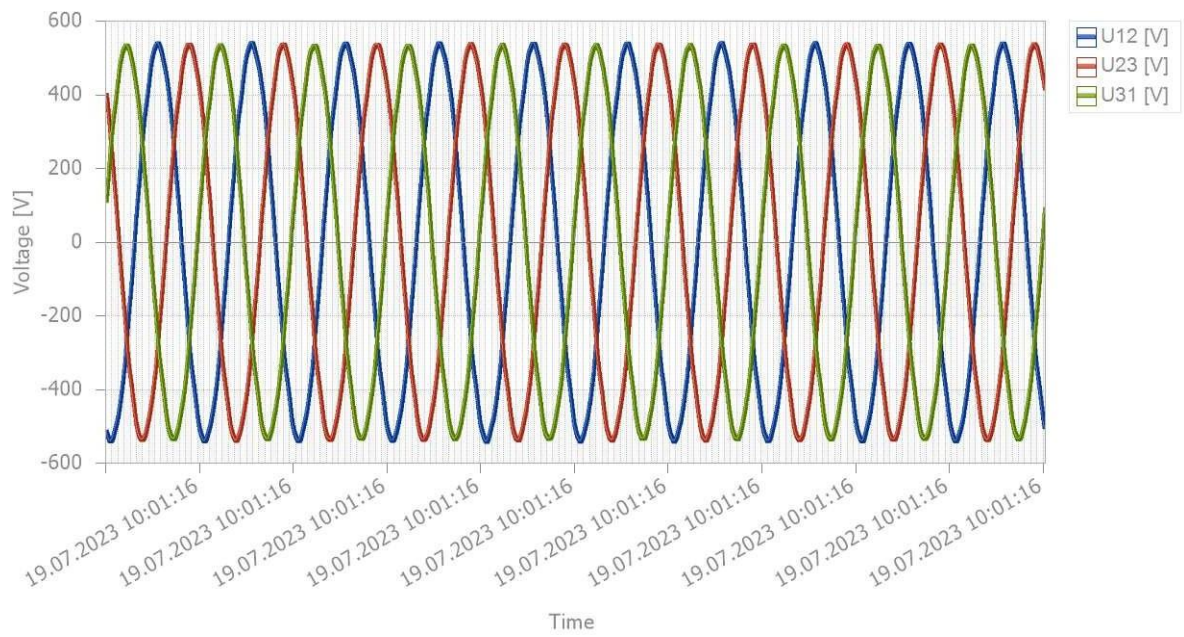
Item	R	S	T	N	Tot
Current [A]	121,66	120,61	119,59	71,25	
Load Factor [%]	99,81	98,94	98,11	58,45	
Active Power [kW]					69,47
Apparent Power [kVA]					78,68
Reactive Power [kvar]					37,05
Power Factor [%]					88,15
Frequency [Hz]					50,00

## Vector Diagram

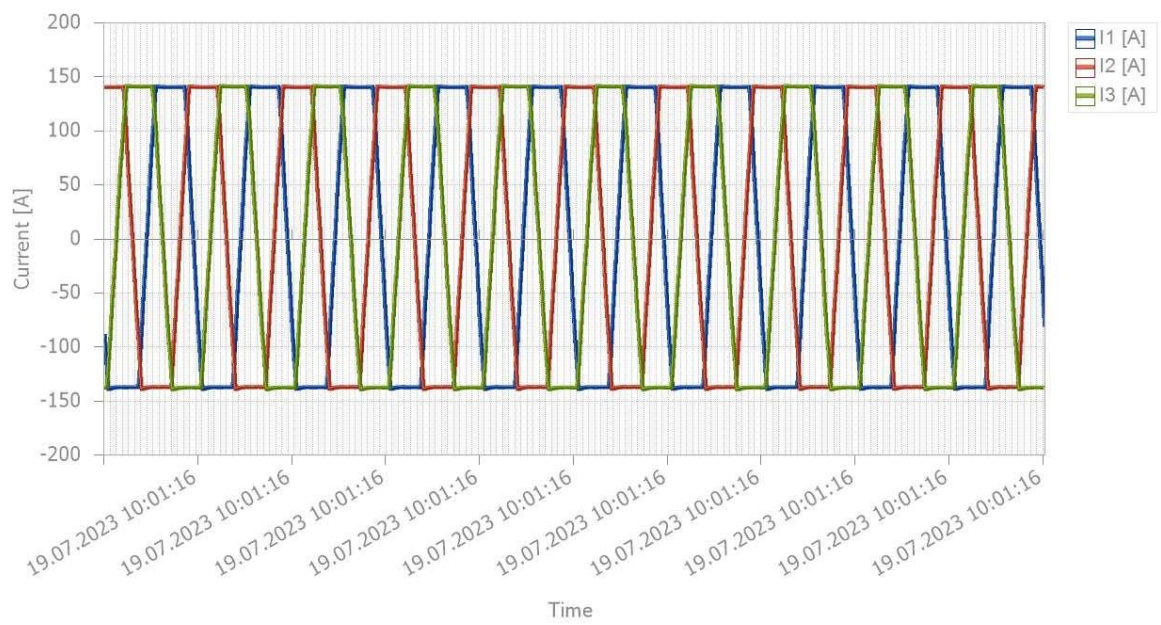


Item	Value	Angle
$U_R$	212,56 V	0,00 °
$U_S$	220,11 V	-121,79 °
$U_T$	218,98 V	120,31 °
$I_R$	118,42 A	-23,14 °
$I_S$	117,71 A	-150,05 °
$I_T$	117,01 A	94,19 °

## Voltage Waveform



## Current Waveform

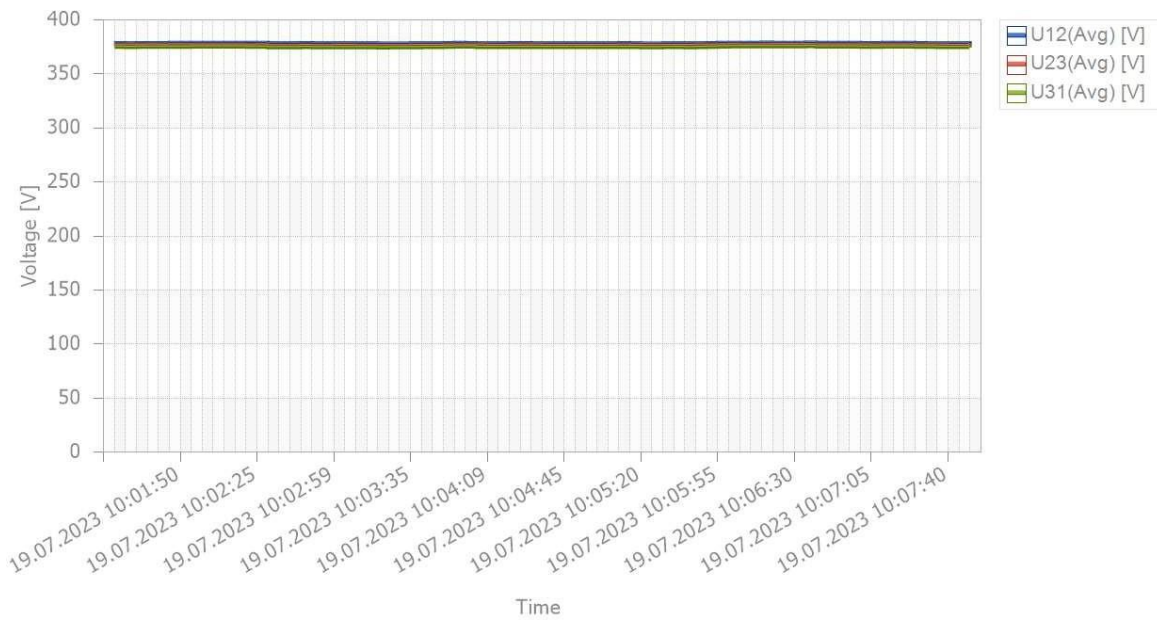




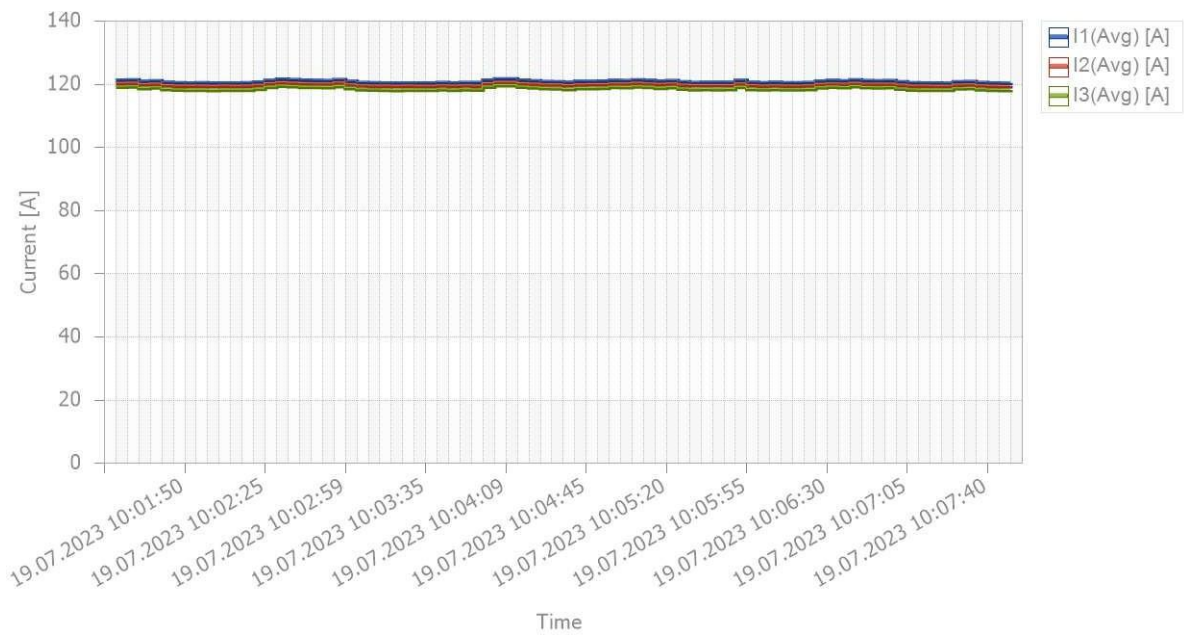
Item	Min	Time	Max	Time	Avg
UR [V]	212,56	19.07.2023 10:03:20	213,60	19.07.2023 10:06:35	213,07
Us [V]	220,12	19.07.2023 10:07:50	220,61	19.07.2023 10:02:10	220,39
UT [V]	219,08	19.07.2023 10:07:50	219,65	19.07.2023 10:02:25	219,30
UR-s [V]	378,33	19.07.2023 10:03:30	379,19	19.07.2023 10:06:35	378,72
Us-T [V]	376,32	19.07.2023 10:03:20	377,34	19.07.2023 10:06:35	376,80
UT-R [V]	374,49	19.07.2023 10:03:20	375,62	19.07.2023 10:06:35	374,98
IR [A]	120,30	19.07.2023 10:07:45	121,66	19.07.2023 10:04:09	120,81
Is [A]	119,33	19.07.2023 10:07:45	120,61	19.07.2023 10:04:04	119,80
IT [A]	118,10	19.07.2023 10:07:45	119,59	19.07.2023 10:04:04	118,63
IN [A]	64,73	19.07.2023 10:07:45	71,25	19.07.2023 10:04:04	67,11
P [kW]	68,52	19.07.2023 10:07:45	69,47	19.07.2023 10:04:04	68,87
Sv [kVA]	77,74	19.07.2023 10:03:20	78,68	19.07.2023 10:04:04	78,12
N [kvar]	36,71	19.07.2023 10:03:20	37,05	19.07.2023 10:06:35	36,88
PF	0,88	19.07.2023 10:07:20	0,88	19.07.2023 10:02:30	0,88
f [Hz]	49,98	19.07.2023 10:07:25	50,02	19.07.2023 10:05:35	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

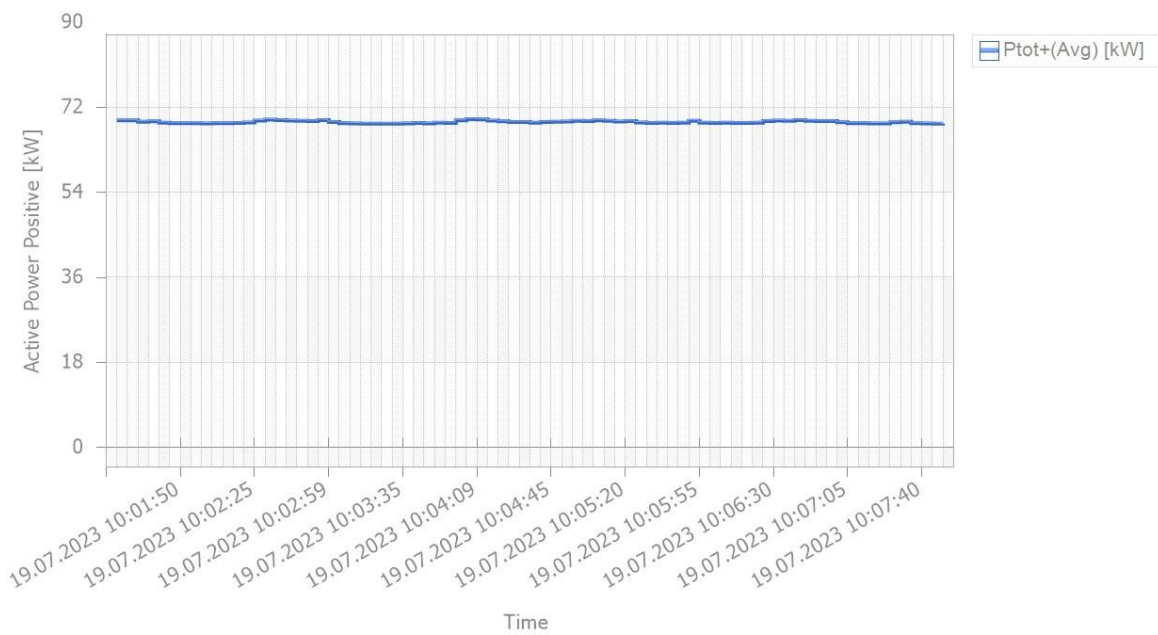
### Voltage Time Plot



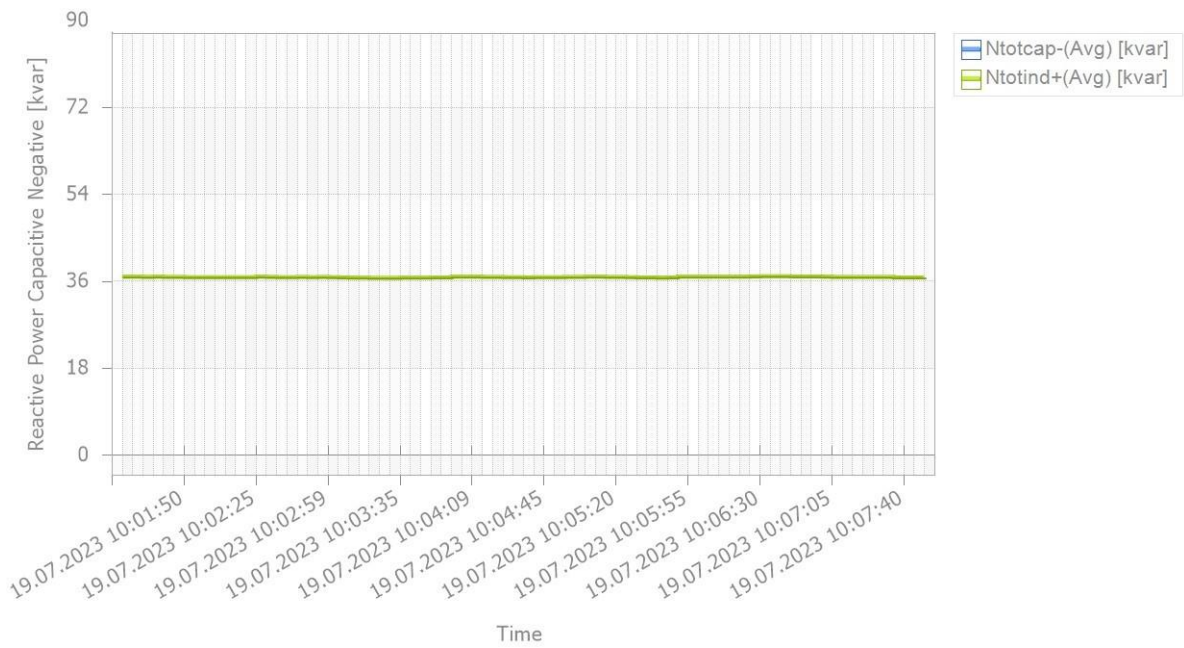
## Current Time Plot



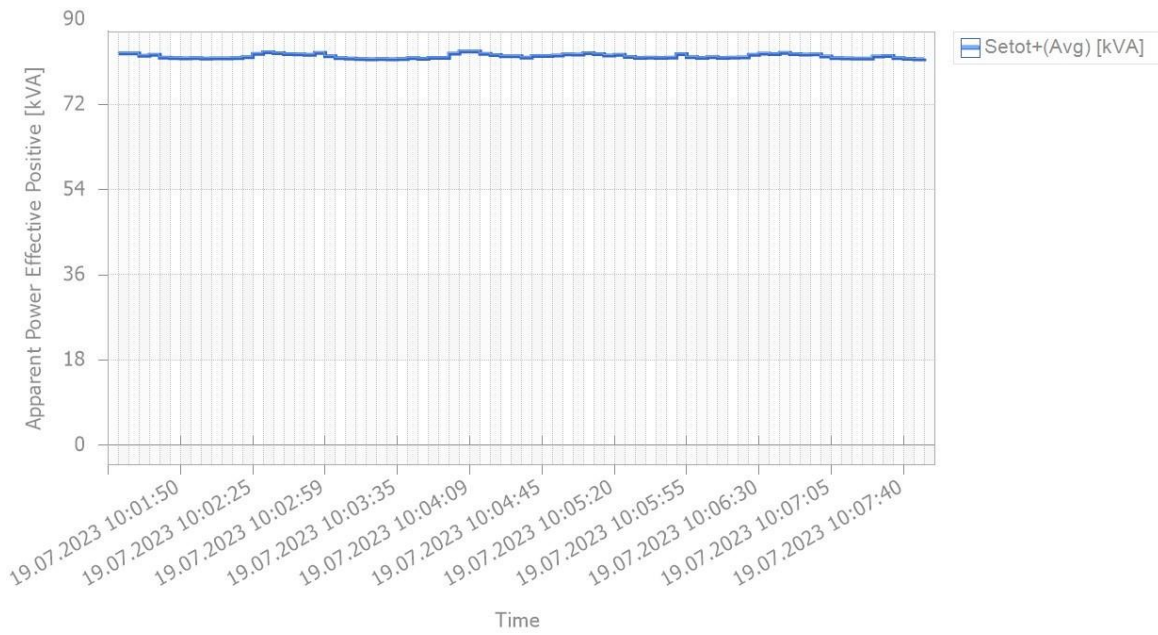
## Active Power Time Plot



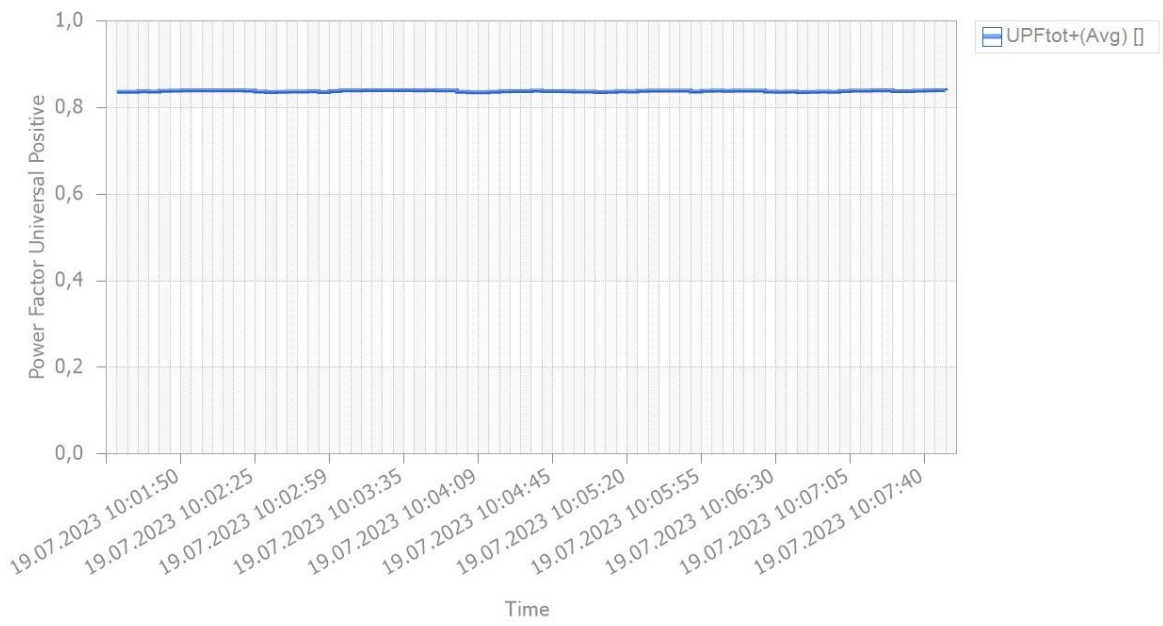
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



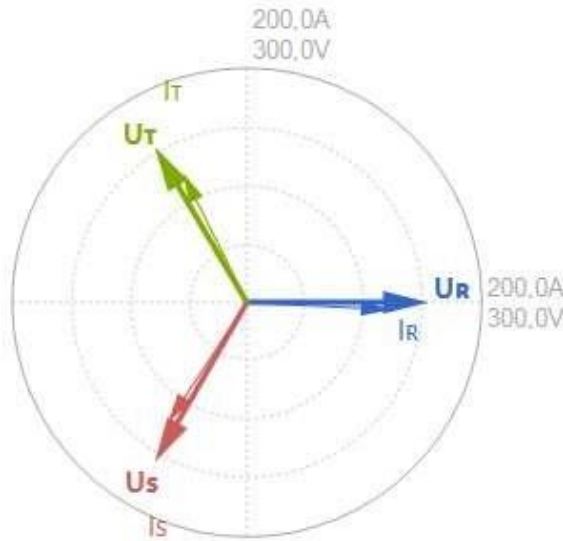
# H Blok Chiller 3 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	407,95	406,39	405,48

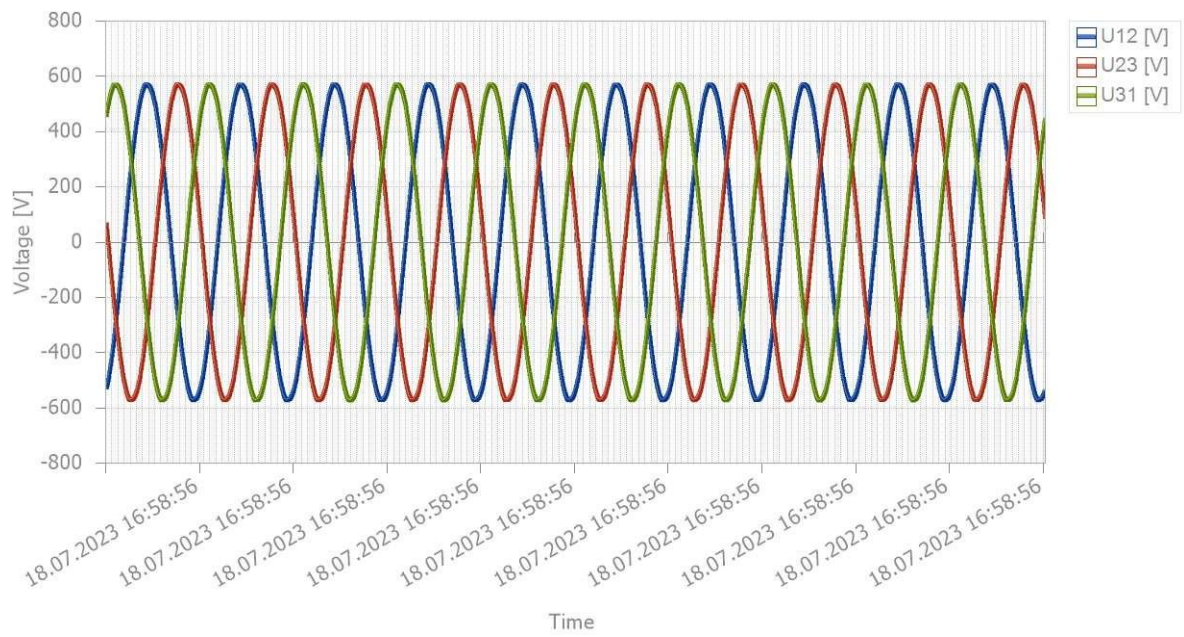
Item	R	S	T	N	Tot
Current [A]	129,83	129,46	130,75	107,89	
Load Factor [%]	99,22	98,94	99,92	82,46	
Active Power [kW]					87,58
Apparent Power [kVA]					92,21
Reactive Power [kvar]					29,92
Power Factor [%]					95,03
Frequency [Hz]					50,00

## Vector Diagram

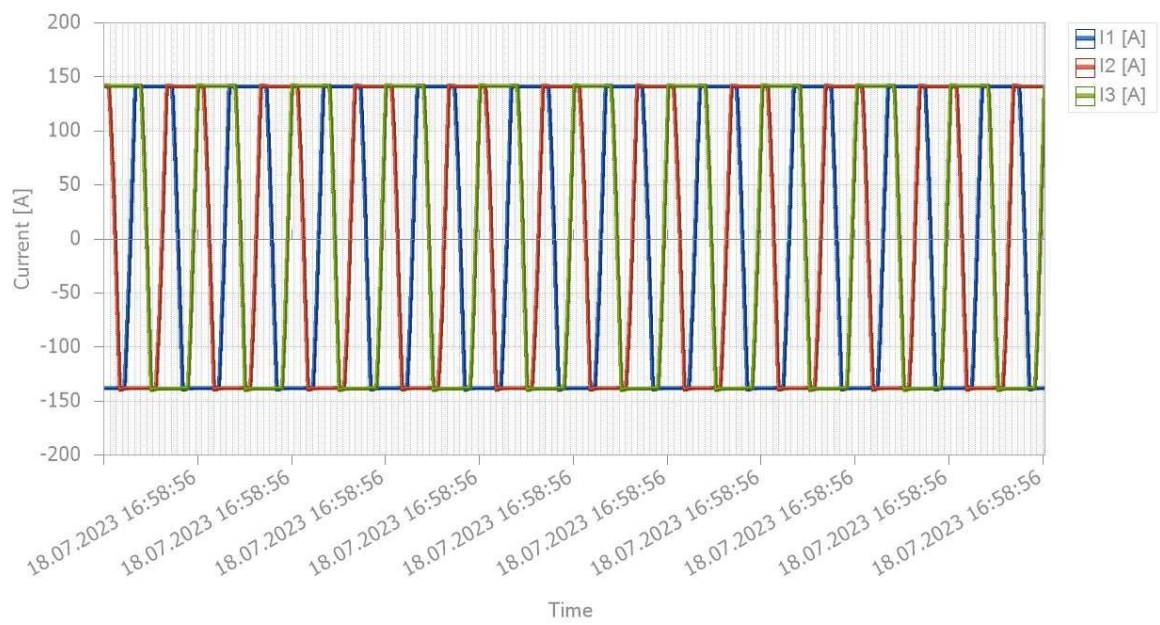


Item	Value	Angle
UR	232,45 V	0,00 °
US	235,95 V	-119,98 °
UT	231,92 V	120,58 °
IR	123,14 A	-2,85 °
IS	123,06 A	-123,27 °
IT	123,78 A	116,24 °

## Voltage Waveform



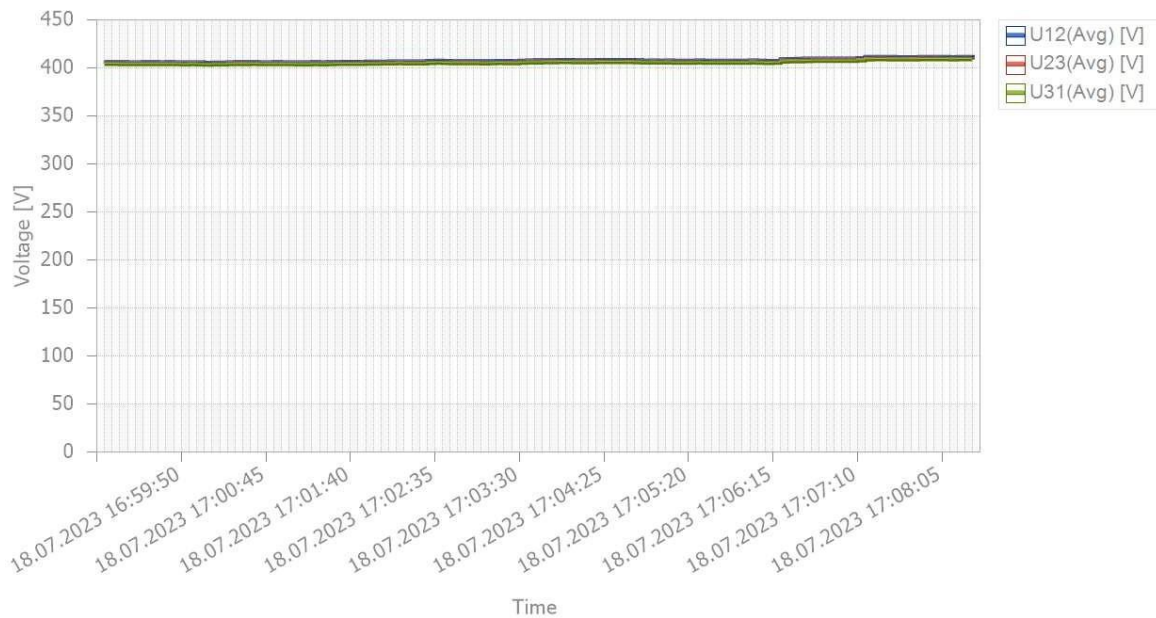
## Current Waveform



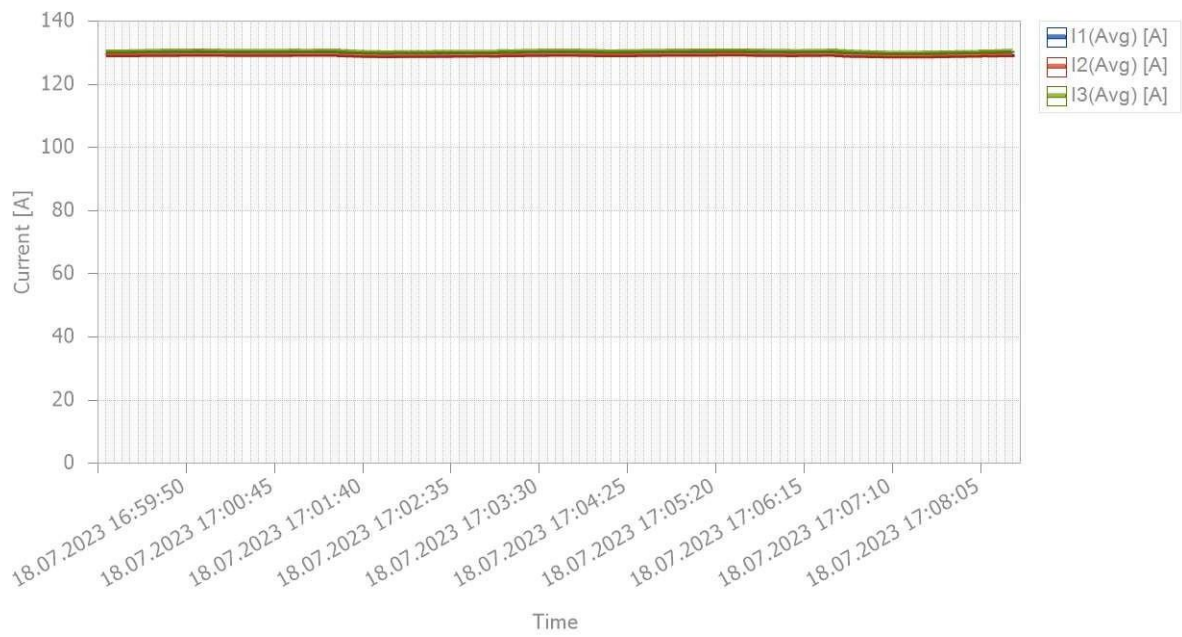
Item	Min	Time	Max	Time	Avg
UR [V]	232,68	18.07.2023 17:00:05	236,01	18.07.2023 17:07:20	233,86
US [V]	235,99	18.07.2023 17:00:05	239,79	18.07.2023 17:07:20	237,47
UT [V]	231,75	18.07.2023 17:00:05	234,98	18.07.2023 17:07:59	232,94
UR-S [V]	405,66	18.07.2023 17:00:05	411,74	18.07.2023 17:07:20	407,95
US-T [V]	404,08	18.07.2023 17:00:05	410,15	18.07.2023 17:07:59	406,39
UT-R [V]	403,42	18.07.2023 17:00:05	409,04	18.07.2023 17:07:59	405,48
IR [A]	129,03	18.07.2023 17:07:05	129,83	18.07.2023 17:05:25	129,49
IS [A]	128,81	18.07.2023 17:07:15	129,46	18.07.2023 17:05:35	129,20
IT [A]	129,98	18.07.2023 17:07:10	130,75	18.07.2023 17:05:30	130,47
IN [A]	105,04	18.07.2023 17:07:05	107,89	18.07.2023 16:59:59	106,80
P [kW]	86,18	18.07.2023 17:01:50	87,58	18.07.2023 17:08:20	86,79
Sv [kVA]	90,01	18.07.2023 16:59:55	92,21	18.07.2023 17:08:20	91,33
N [kvar]	22,55	18.07.2023 16:59:55	29,92	18.07.2023 17:07:15	28,37
PF	0,95	18.07.2023 17:07:15	0,96	18.07.2023 16:59:55	0,95
f [Hz]	49,98	18.07.2023 17:02:50	50,04	18.07.2023 17:07:45	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

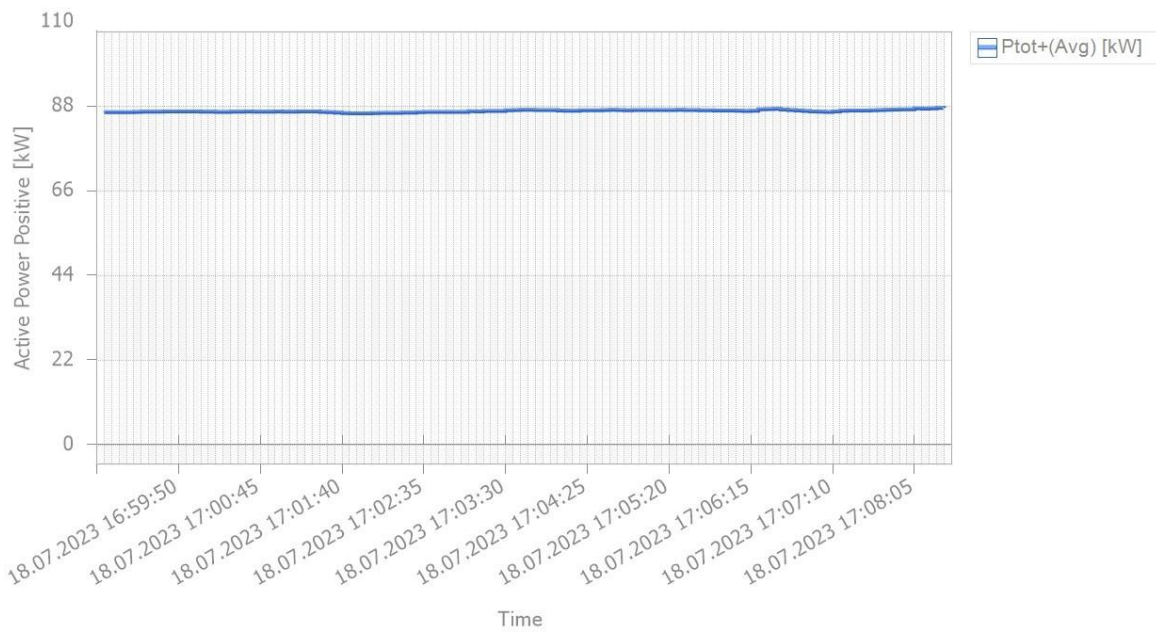
### Voltage Time Plot



## Current Time Plot

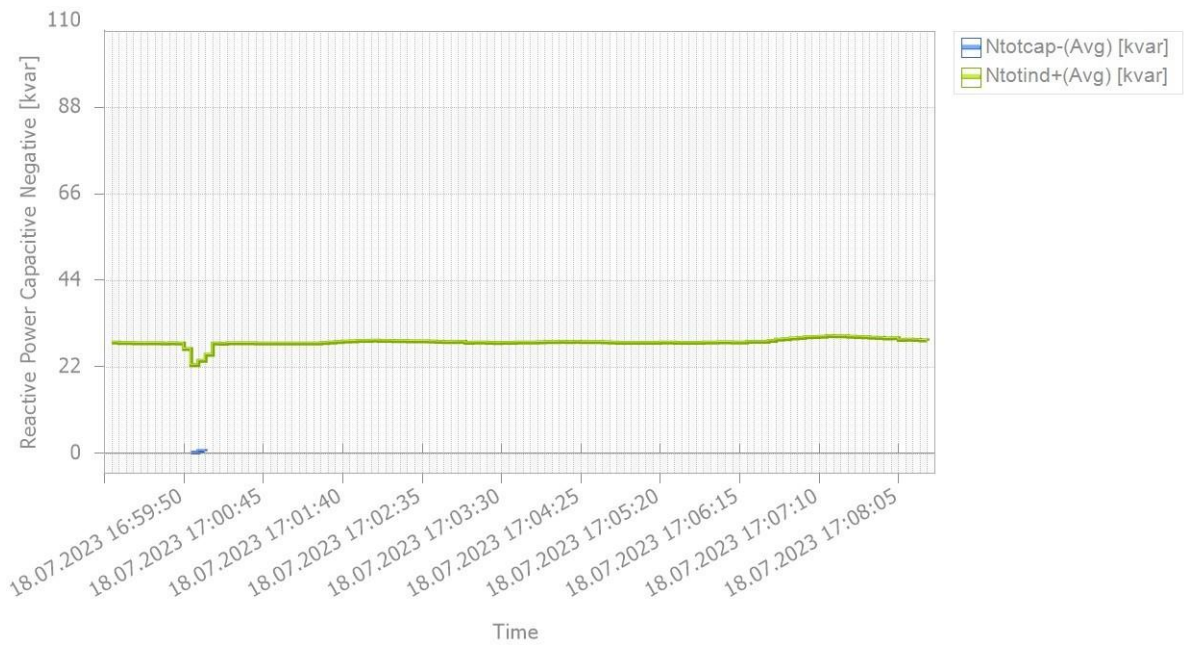


## Active Power Time Plot

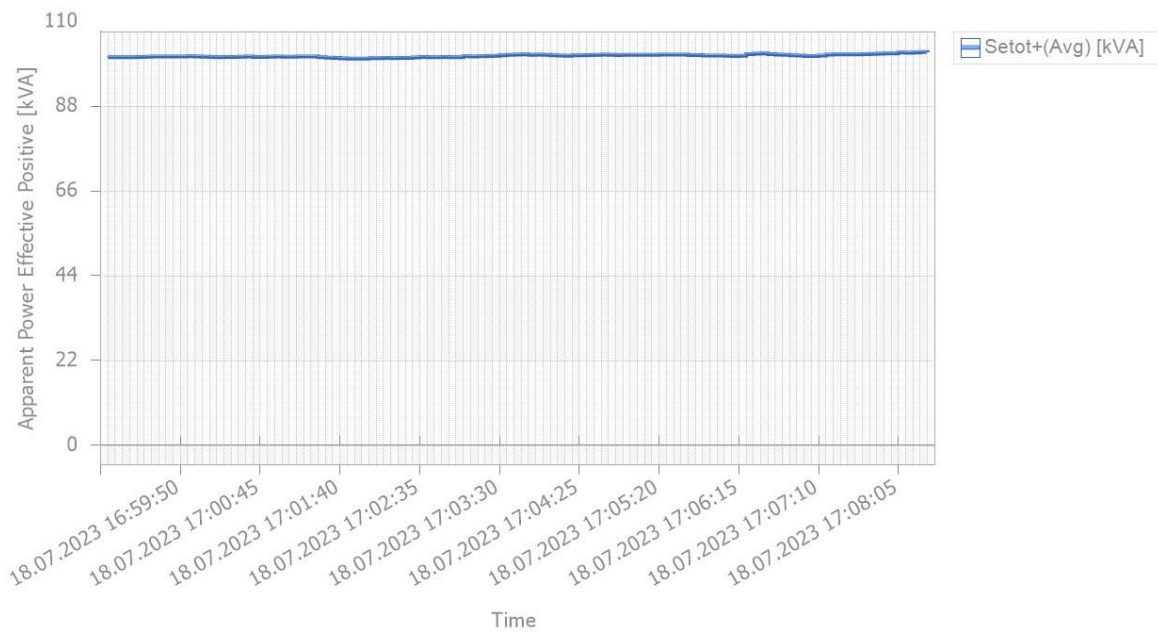




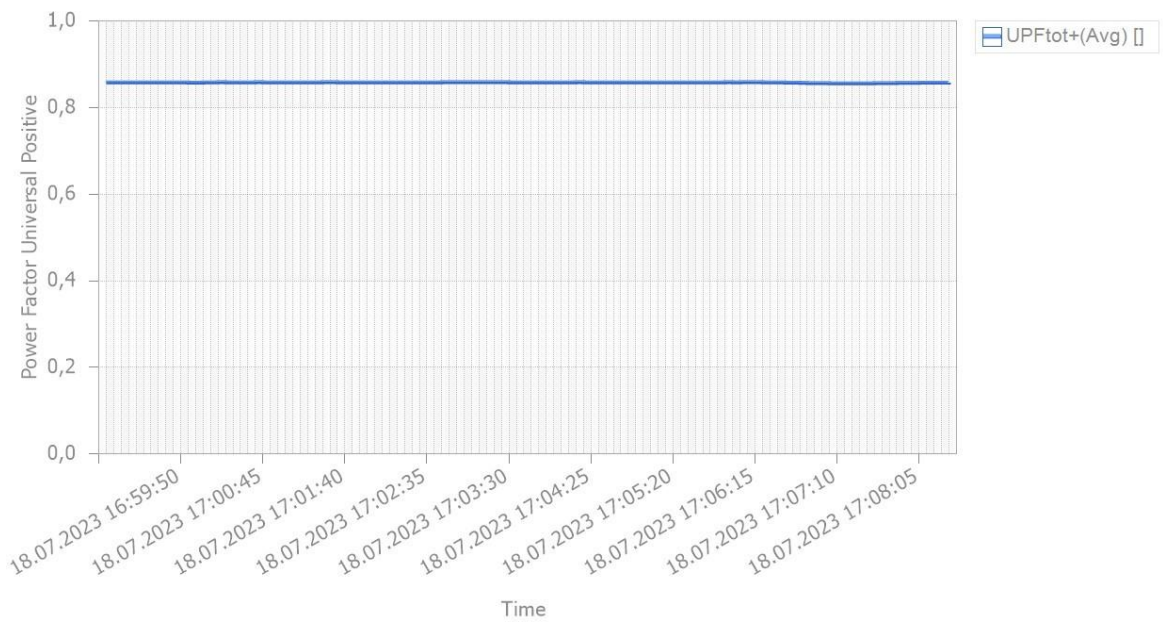
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



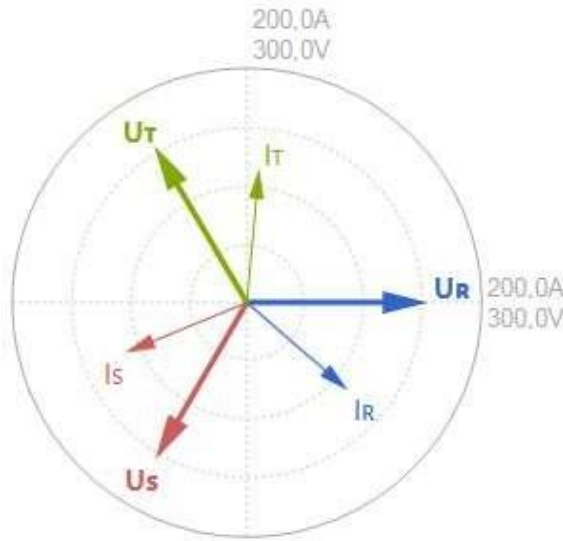
# Chiller 5 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	402,97	401,81	403,94

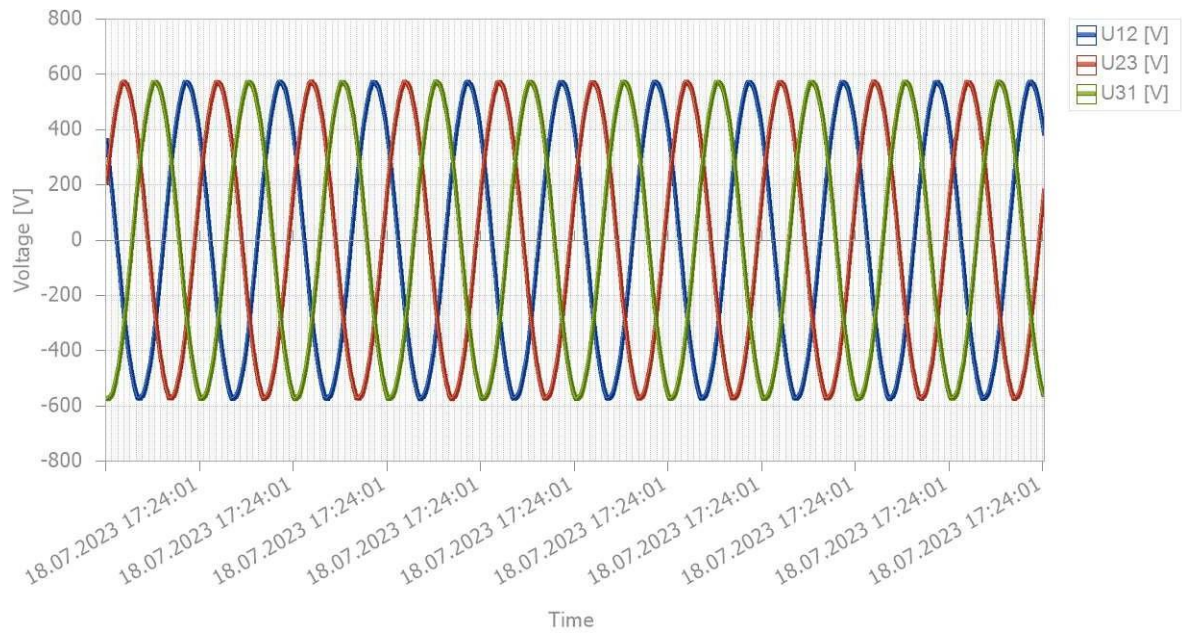
Item	R	S	T	N	Tot
Current [A]	116,12	114,21	116,87	45,68	
Load Factor [%]	99,31	97,68	99,95	39,06	
Active Power [kW]					63,72
Apparent Power [kVA]					80,70
Reactive Power [kvar]					49,97
Power Factor [%]					78,58
Frequency [Hz]					50,01

## Vector Diagram

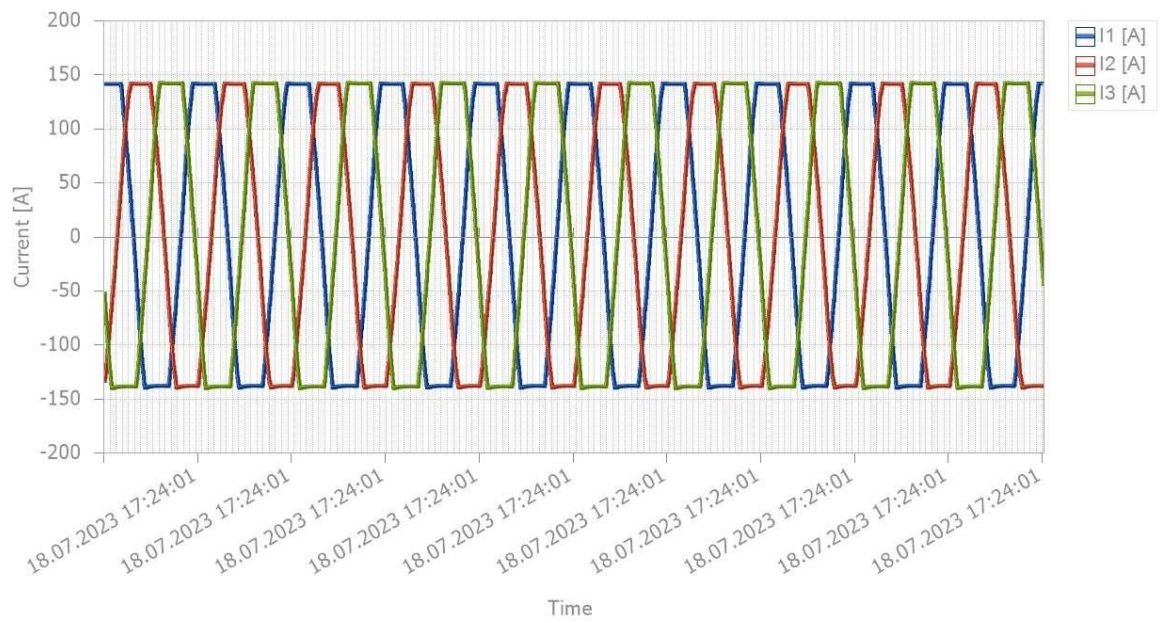


Item	Value	Angle
UR	231,70 V	0,00 °
US	232,43 V	-120,29 °
UT	233,03 V	120,55 °
IR	114,14 A	-41,00 °
IS	112,42 A	-157,62 °
IT	114,86 A	84,83 °

## Voltage Waveform



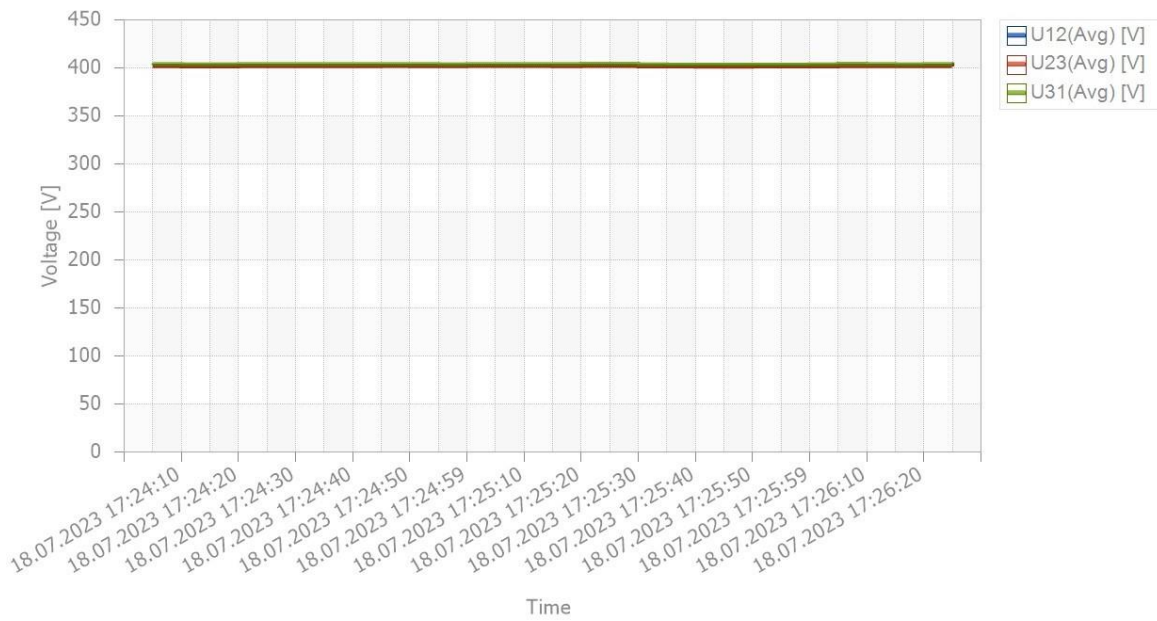
## Current Waveform



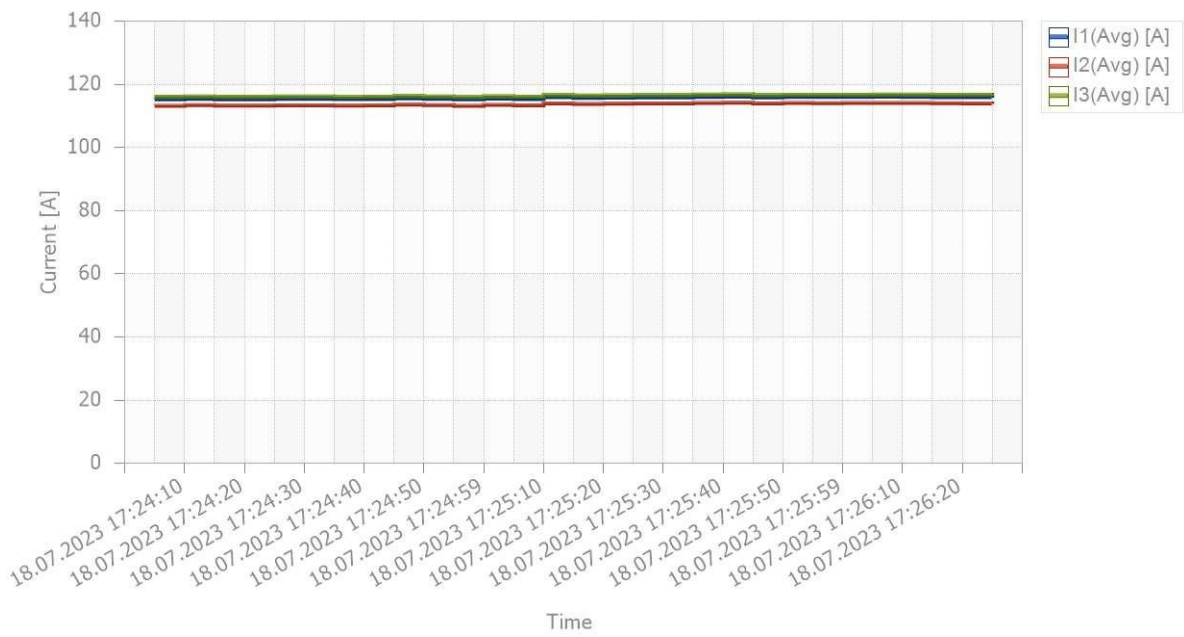
Item	Min	Time	Max	Time	Avg
UR [V]	231,43	18.07.2023 17:25:45	232,17	18.07.2023 17:24:35	231,72
US [V]	232,32	18.07.2023 17:25:45	233,07	18.07.2023 17:24:05	232,62
UT [V]	232,87	18.07.2023 17:24:35	233,78	18.07.2023 17:25:05	233,54
UR-S [V]	402,56	18.07.2023 17:25:45	403,31	18.07.2023 17:25:25	402,97
US-T [V]	401,33	18.07.2023 17:25:45	402,17	18.07.2023 17:25:20	401,81
UT-R [V]	403,47	18.07.2023 17:25:45	404,26	18.07.2023 17:25:20	403,94
IR [A]	115,28	18.07.2023 17:24:20	116,12	18.07.2023 17:25:40	115,70
IS [A]	113,24	18.07.2023 17:24:05	114,21	18.07.2023 17:25:40	113,73
IT [A]	116,06	18.07.2023 17:24:55	116,87	18.07.2023 17:25:40	116,45
IN [A]	42,16	18.07.2023 17:24:55	45,68	18.07.2023 17:25:40	43,90
P [kW]	62,66	18.07.2023 17:24:05	63,72	18.07.2023 17:25:40	63,18
Sv [kVA]	80,09	18.07.2023 17:24:15	80,70	18.07.2023 17:26:05	80,40
N [kvar]	49,41	18.07.2023 17:25:40	49,97	18.07.2023 17:24:05	49,73
PF	0,78	18.07.2023 17:24:05	0,79	18.07.2023 17:25:40	0,79
f [Hz]	49,99	18.07.2023 17:25:50	50,02	18.07.2023 17:24:40	50,01

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

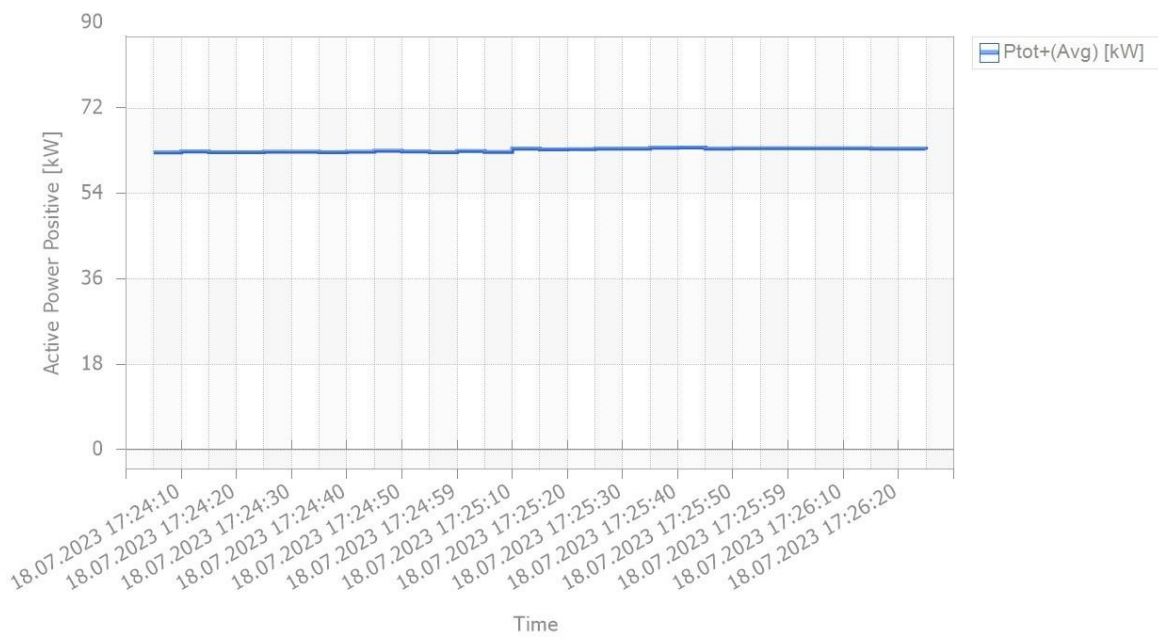
### Voltage Time Plot



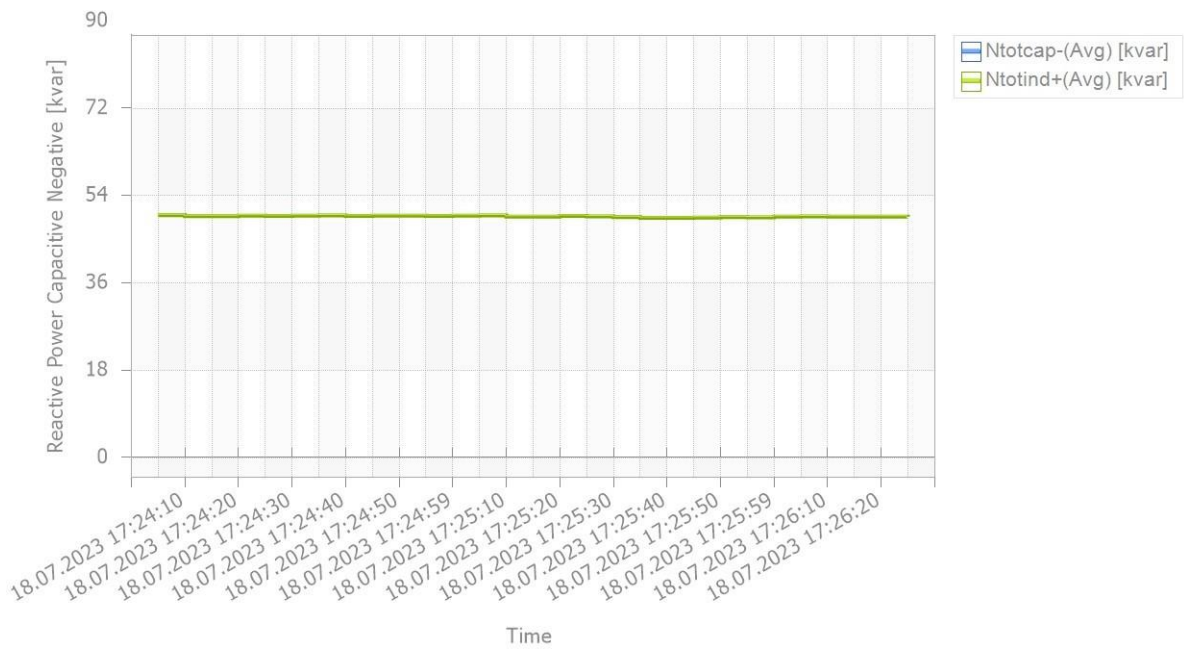
## Current Time Plot



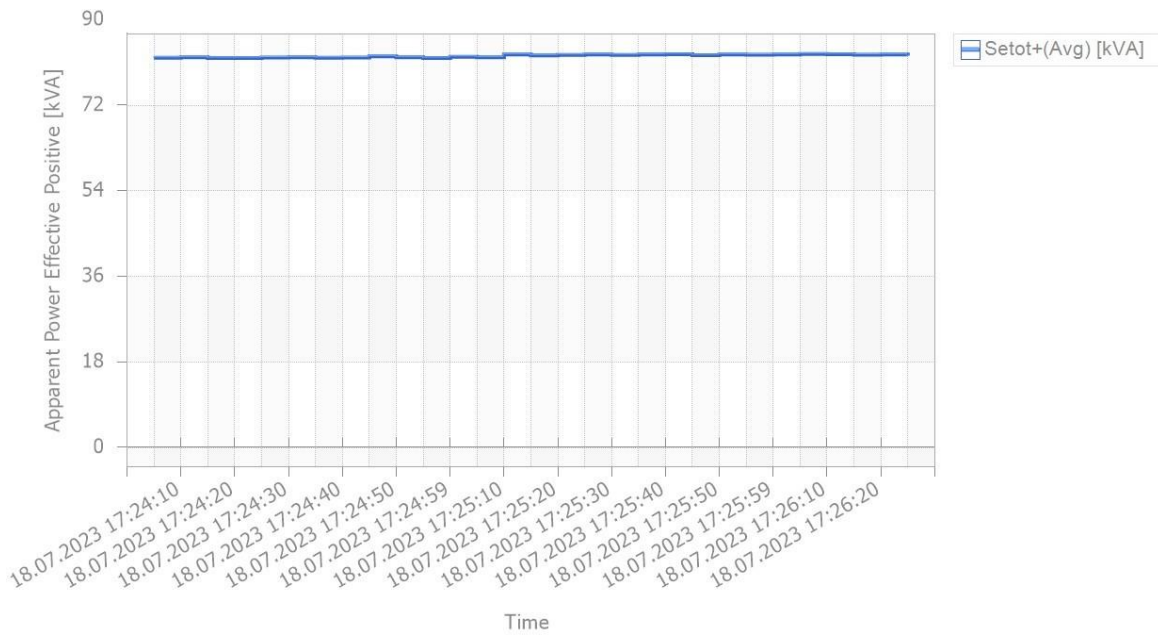
## Active Power Time Plot



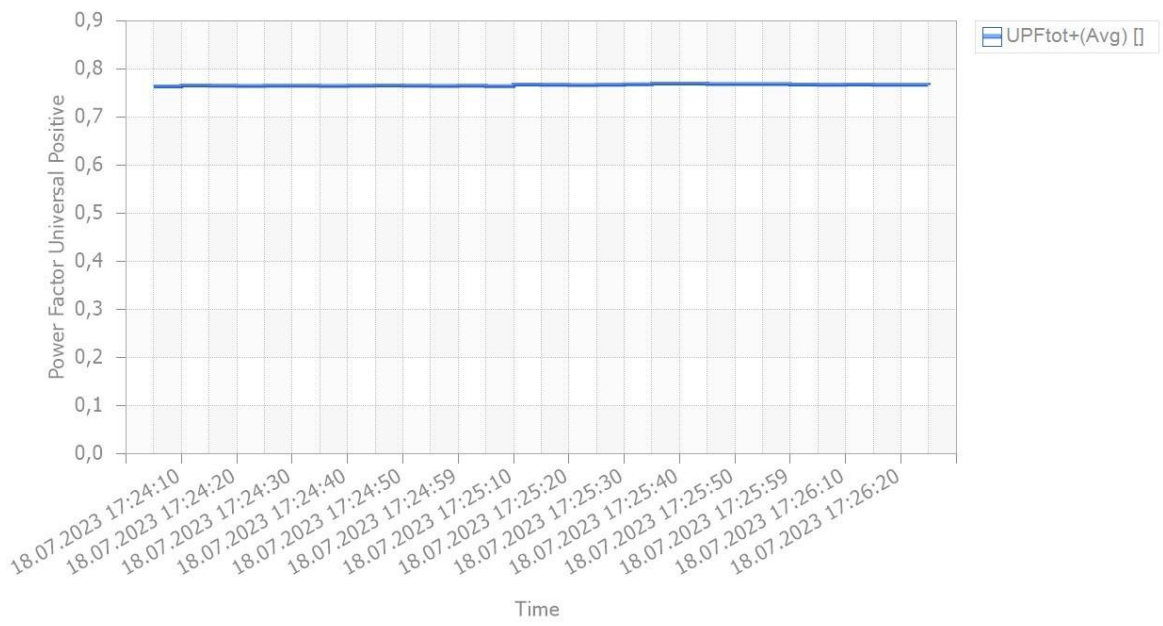
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot





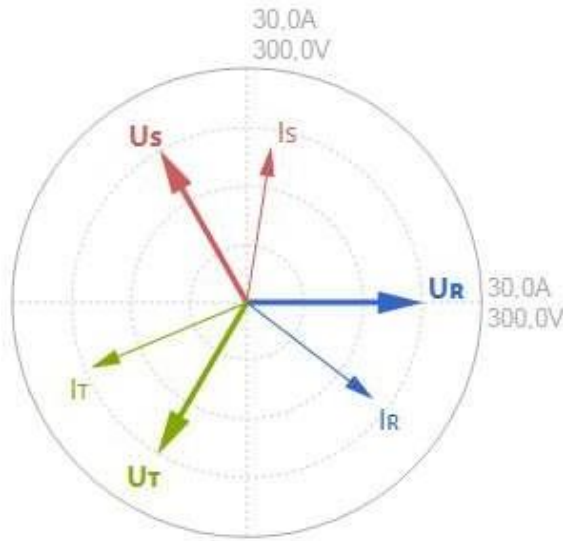
# Kazan Dairesi Pompa Klima Santrali Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	392,26	393,36	394,18

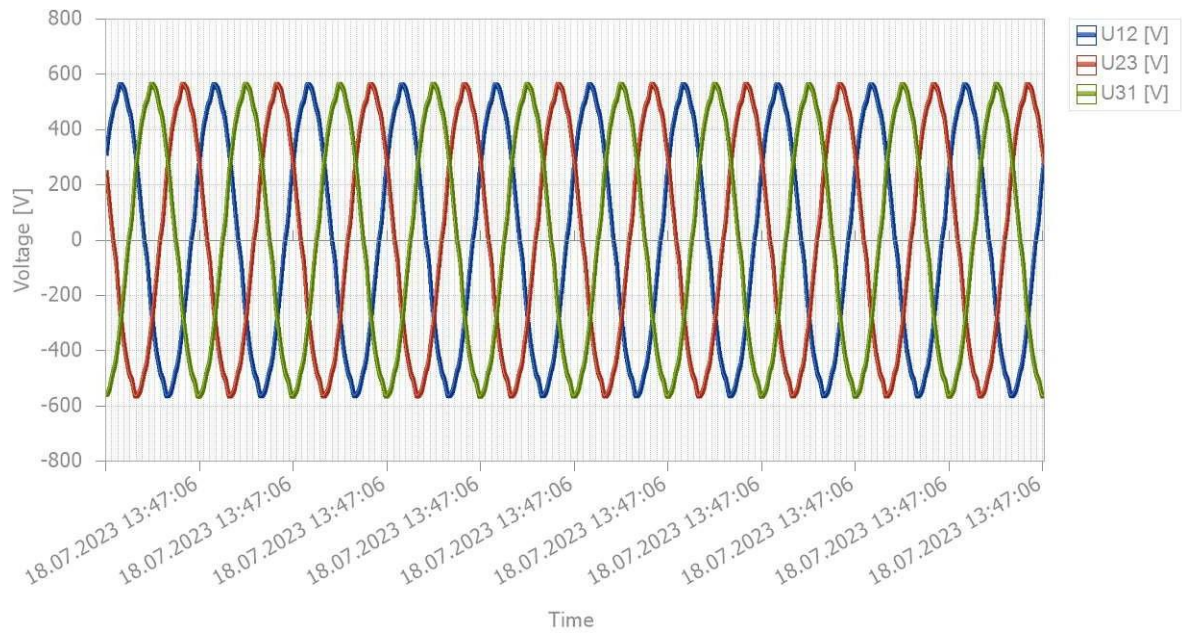
Item	R	S	T	N	Tot
Current [A]	20,49	20,40	21,84	1,24	
Load Factor [%]	93,14	92,73	99,26	5,63	
Active Power [kW]					11,25
Apparent Power [kVA]					14,33
Reactive Power [kvar]					8,88
Power Factor [%]					78,93
Frequency [Hz]					49,99

## Vector Diagram

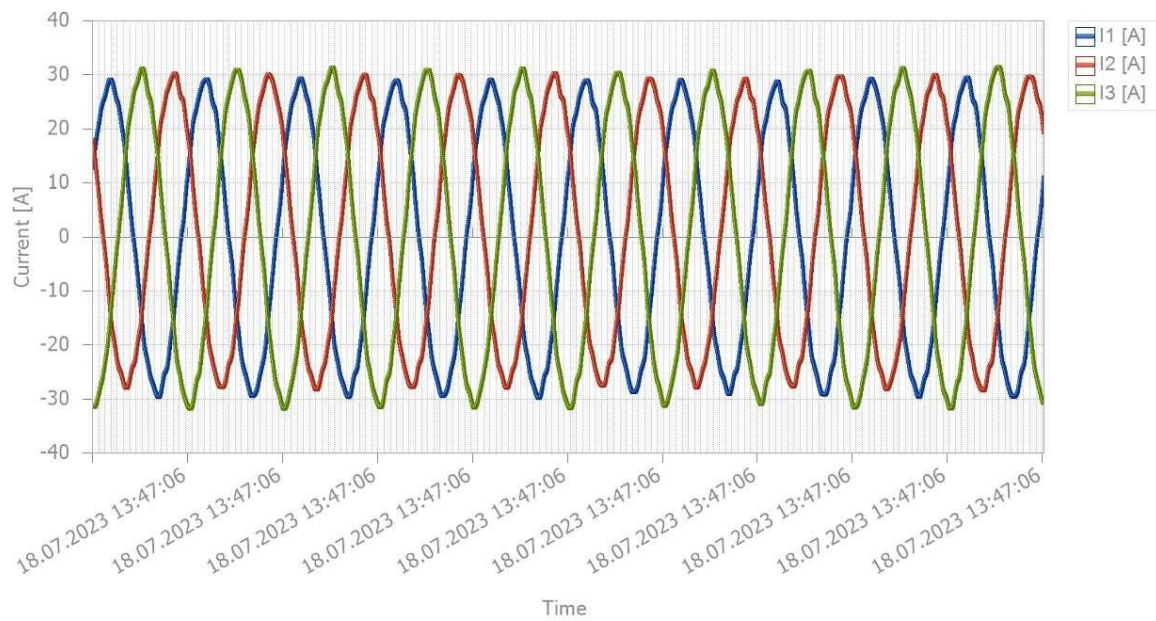


Item	Value	Angle
UR	225,62 V	0,00 °
US	225,77 V	119,66 °
UT	226,37 V	-120,44 °
IR	20,40 A	-37,43 °
IS	20,27 A	81,12 °
IT	21,74 A	-157,26 °

## Voltage Waveform



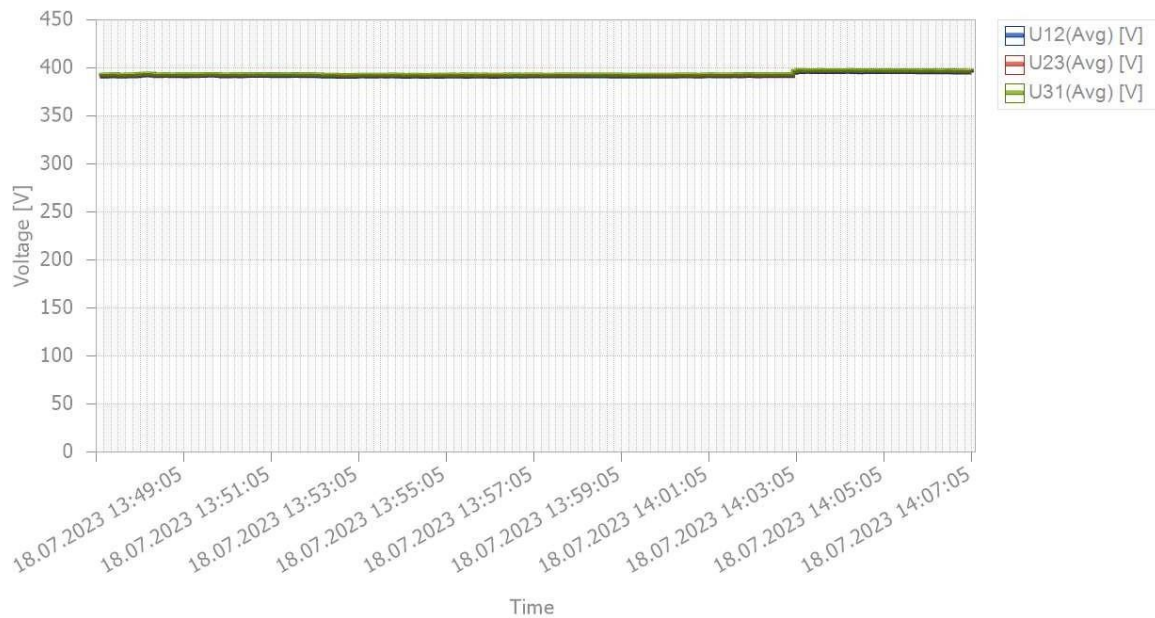
## Current Waveform



Item	Min	Time	Max	Time	Avg
UR [V]	224,42	18.07.2023 13:56:30	229,05	18.07.2023 14:03:35	226,76
US [V]	225,91	18.07.2023 13:52:45	229,14	18.07.2023 14:06:20	226,89
UT [V]	226,55	18.07.2023 13:52:45	229,84	18.07.2023 14:06:15	227,51
UR-S [V]	390,81	18.07.2023 13:52:45	395,99	18.07.2023 14:03:20	392,26
US-T [V]	391,85	18.07.2023 13:52:45	397,07	18.07.2023 14:04:15	393,36
UT-R [V]	392,62	18.07.2023 13:52:45	397,91	18.07.2023 14:03:05	394,18
IR [A]	20,34	18.07.2023 14:05:35	20,49	18.07.2023 13:47:40	20,41
IS [A]	20,22	18.07.2023 14:06:35	20,40	18.07.2023 13:48:50	20,31
IT [A]	21,69	18.07.2023 14:00:59	21,84	18.07.2023 13:52:15	21,76
IN [A]	1,05	18.07.2023 13:48:15	1,24	18.07.2023 13:47:10	1,09
P [kW]	11,16	18.07.2023 14:00:55	11,25	18.07.2023 14:03:05	11,20
Sv [kVA]	14,12	18.07.2023 14:00:55	14,33	18.07.2023 14:03:05	14,19
N [kvar]	8,64	18.07.2023 13:52:45	8,88	18.07.2023 14:03:05	8,71
PF	0,78	18.07.2023 14:05:35	0,79	18.07.2023 13:52:45	0,79
f [Hz]	49,96	18.07.2023 13:56:10	50,03	18.07.2023 13:50:40	49,99

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

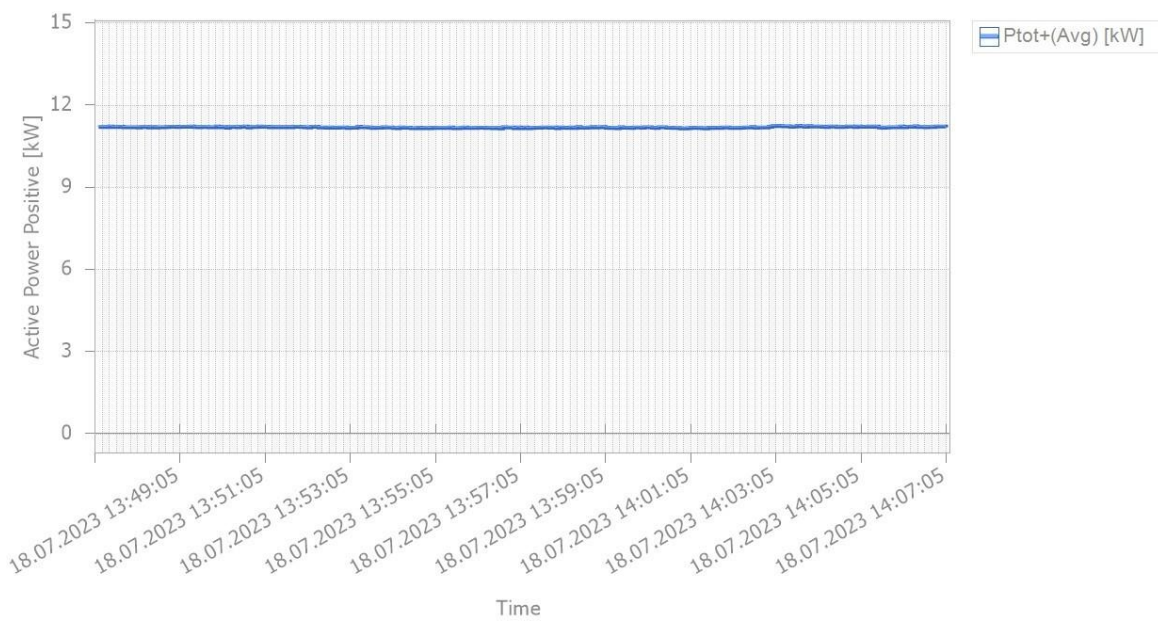
### Voltage Time Plot



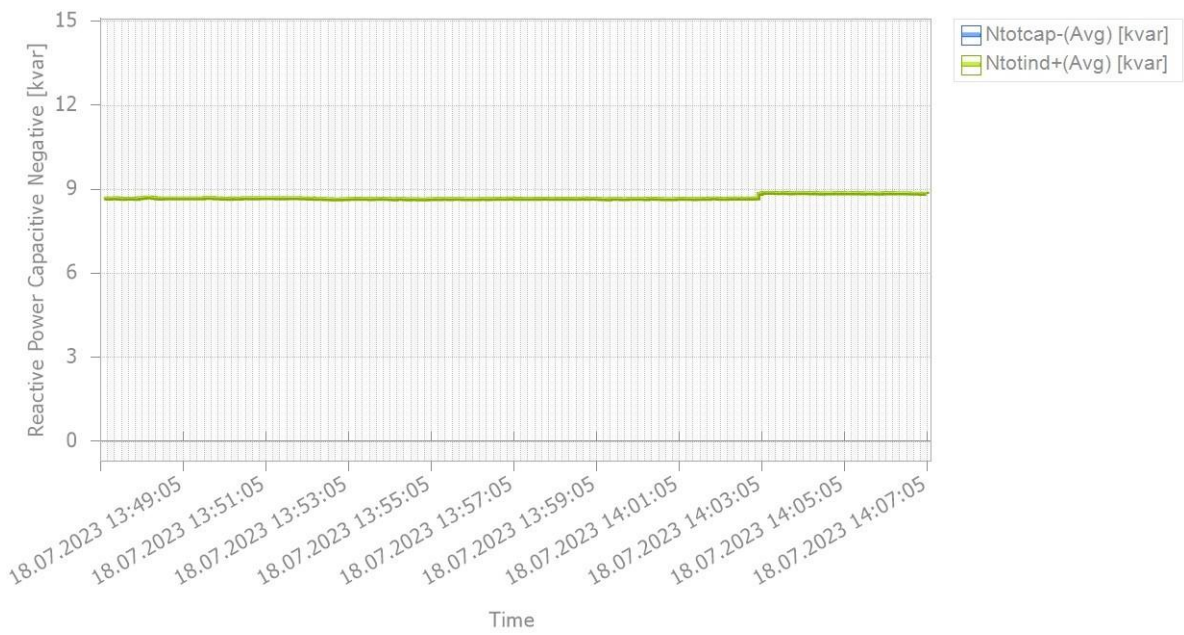
## Current Time Plot



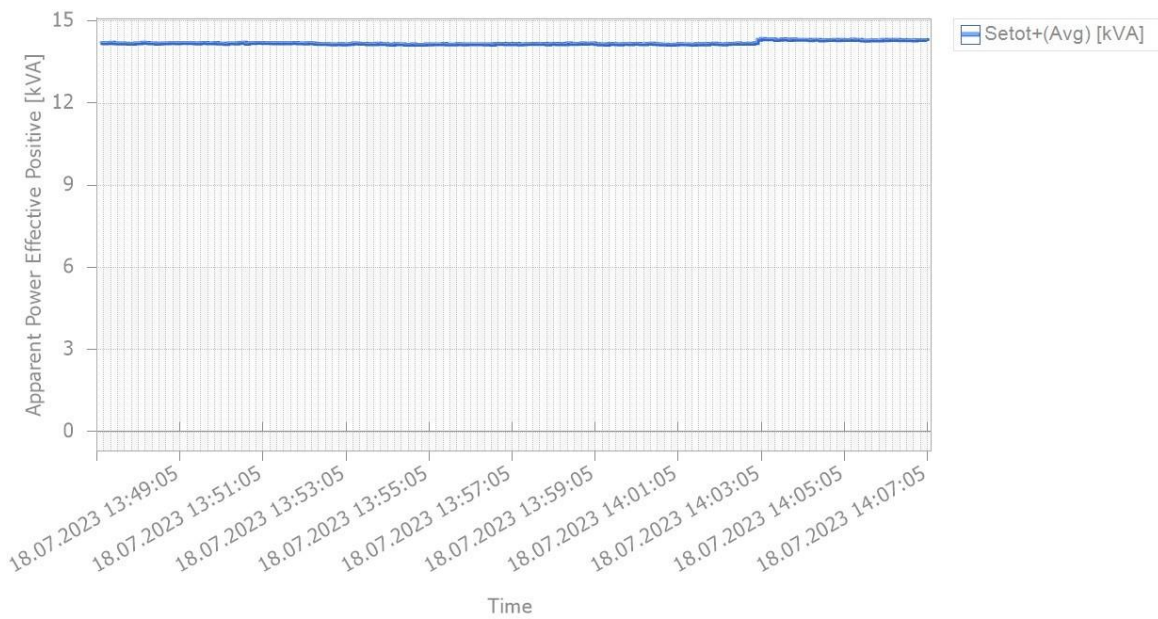
## Active Power Time Plot



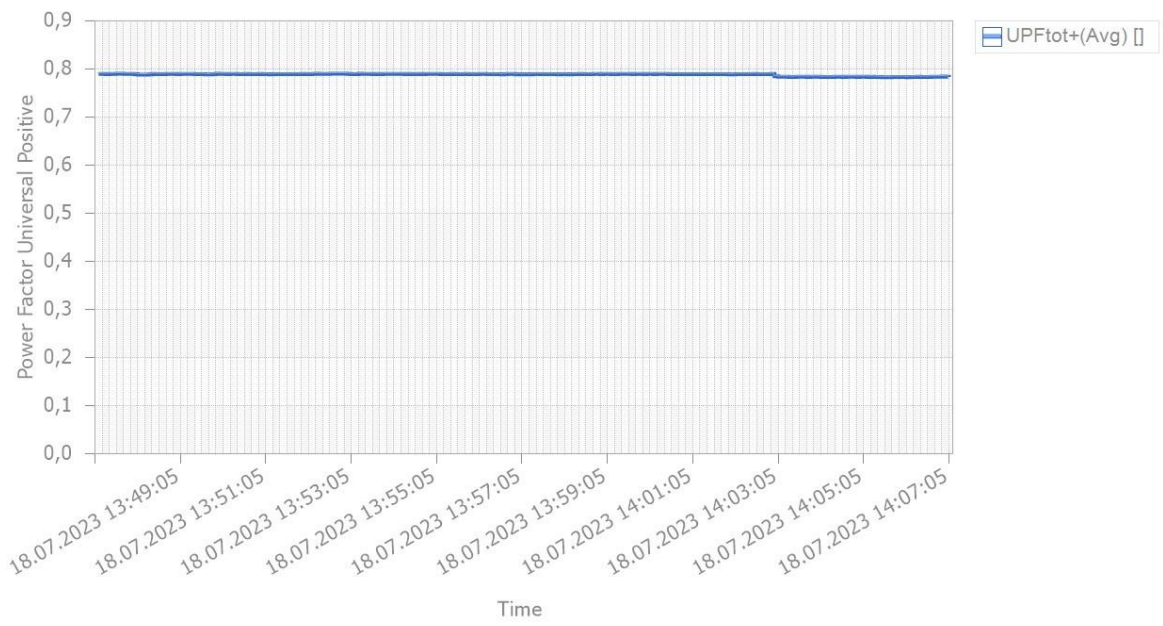
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



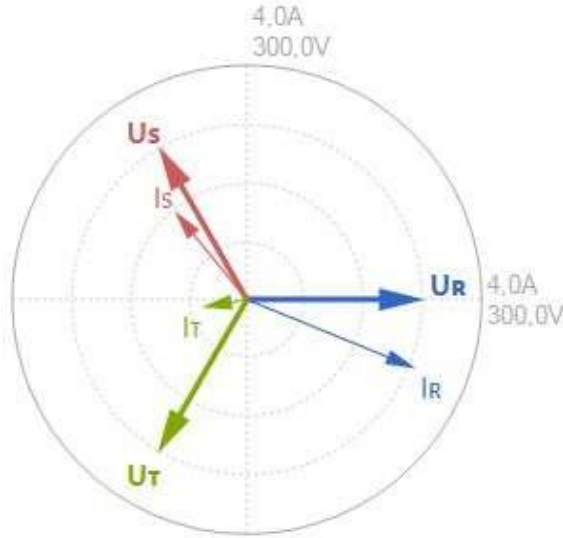
# Kütüphane Soğutma Grubu Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	393,78	394,86	395,44

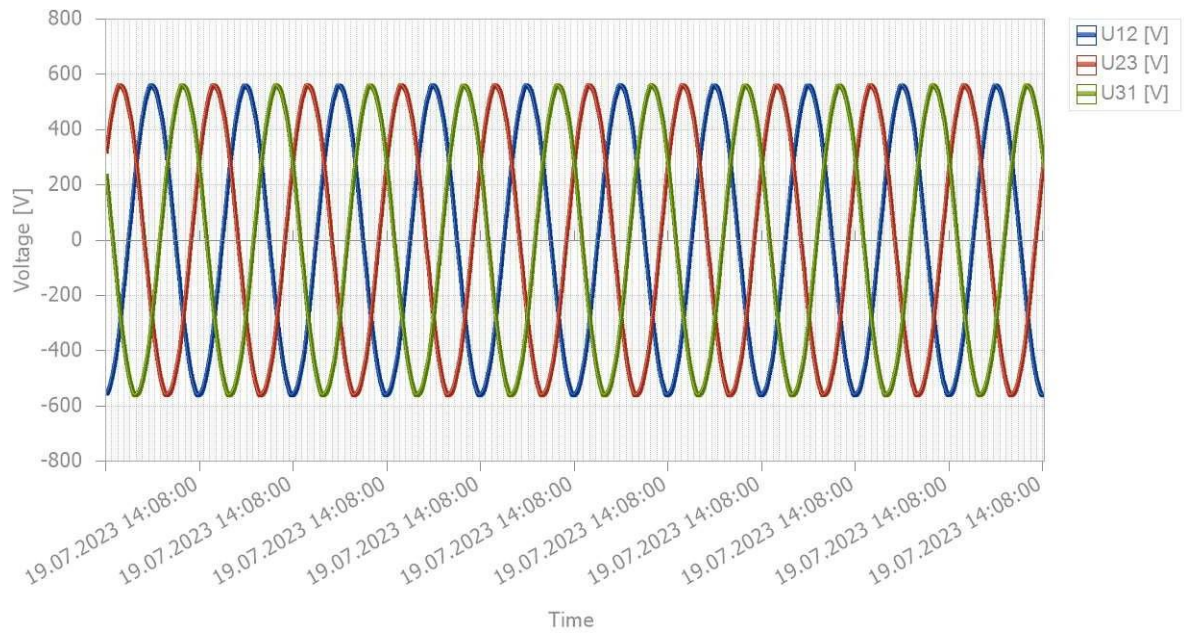
Item	R	S	T	N	Tot
Current [A]	3,15	1,97	0,99	1,31	
Load Factor [%]	97,96	61,34	30,77	40,59	
Active Power [kW]					1,21
Apparent Power [kVA]					1,28
Reactive Power [kvar]					0,41
Power Factor [%]					95,56
Frequency [Hz]					49,99

## Vector Diagram

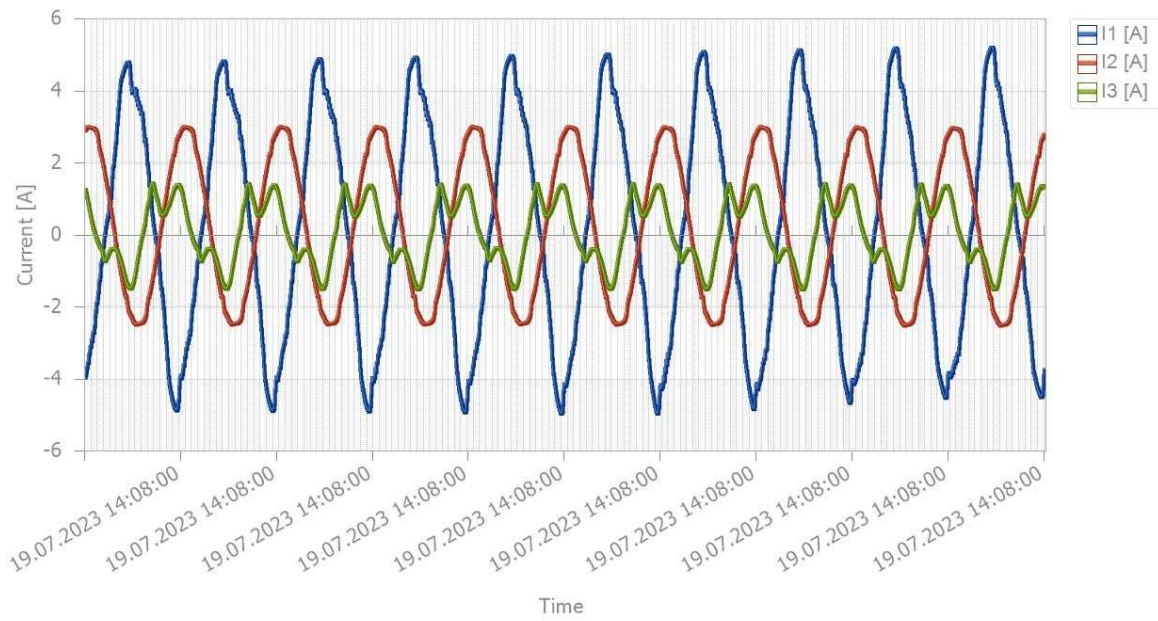


Item	Value	Angle
UR	227,30 V	0,00 °
US	227,14 V	119,93 °
UT	228,47 V	-120,14 °
IR	3,11 A	-22,21 °
IS	1,96 A	129,28 °
IT	0,78 A	-170,34 °

## Voltage Waveform



## Current Waveform

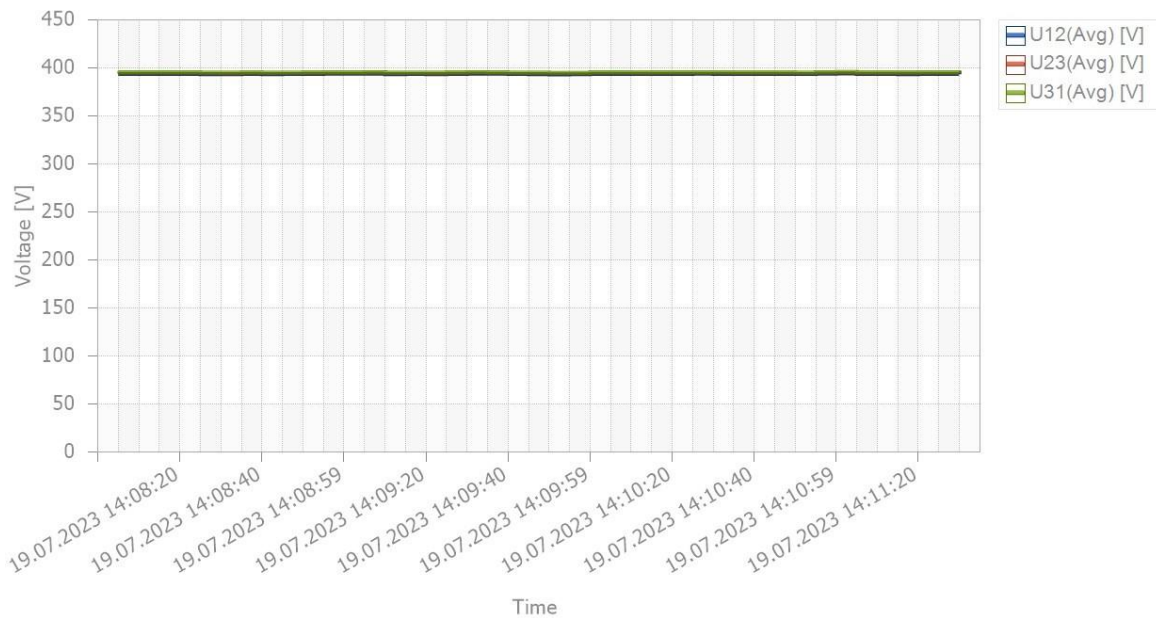




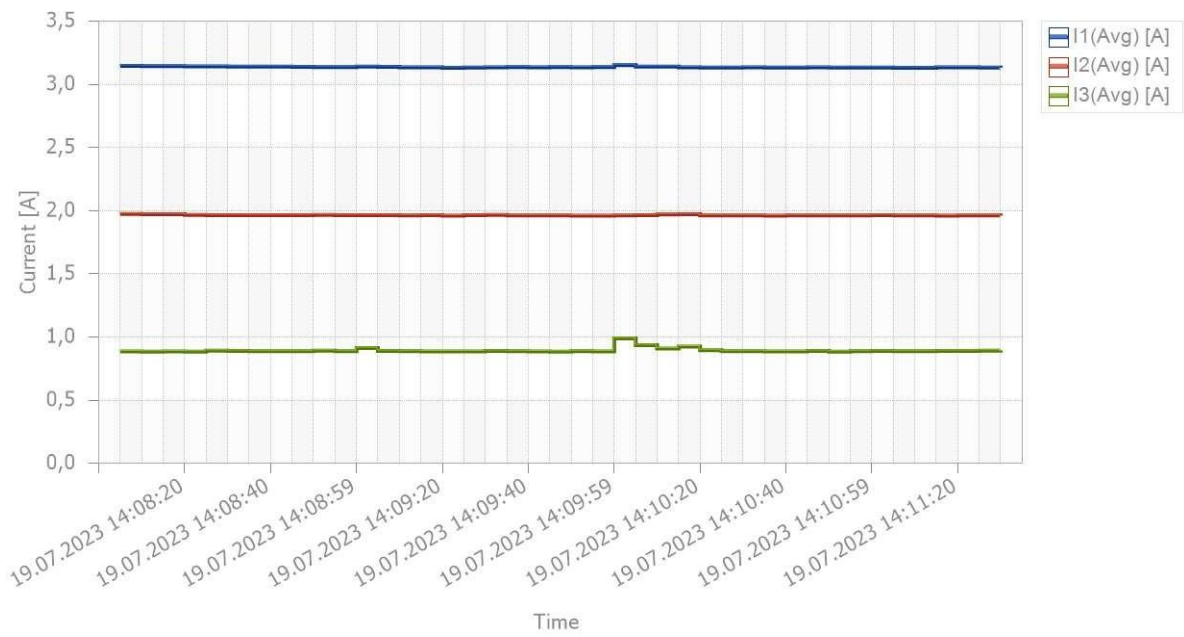
Item	Min	Time	Max	Time	Avg
UR [V]	227,30	19.07.2023 14:09:50	227,81	19.07.2023 14:10:59	227,53
US [V]	227,14	19.07.2023 14:09:50	227,59	19.07.2023 14:10:59	227,35
UT [V]	228,52	19.07.2023 14:11:30	228,98	19.07.2023 14:10:59	228,74
UR-S [V]	393,38	19.07.2023 14:09:50	394,23	19.07.2023 14:10:59	393,78
US-T [V]	394,49	19.07.2023 14:11:30	395,24	19.07.2023 14:10:59	394,86
UT-R [V]	395,03	19.07.2023 14:11:30	395,90	19.07.2023 14:10:59	395,44
IR [A]	3,13	19.07.2023 14:11:05	3,15	19.07.2023 14:09:59	3,14
IS [A]	1,96	19.07.2023 14:09:50	1,97	19.07.2023 14:08:05	1,97
IT [A]	0,88	19.07.2023 14:08:20	0,99	19.07.2023 14:09:59	0,89
IN [A]	1,01	19.07.2023 14:10:25	1,31	19.07.2023 14:09:59	1,06
P [W]	1,21	19.07.2023 14:09:20	1,21	19.07.2023 14:08:05	1210,56
Sv [VA]	1,26	19.07.2023 14:09:20	1,28	19.07.2023 14:09:59	1266,86
N [var]	0,36	19.07.2023 14:08:05	0,41	19.07.2023 14:09:59	373,28
PF	0,95	19.07.2023 14:09:59	0,96	19.07.2023 14:08:05	0,96
f [Hz]	49,98	19.07.2023 14:11:20	50,01	19.07.2023 14:09:45	49,99

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

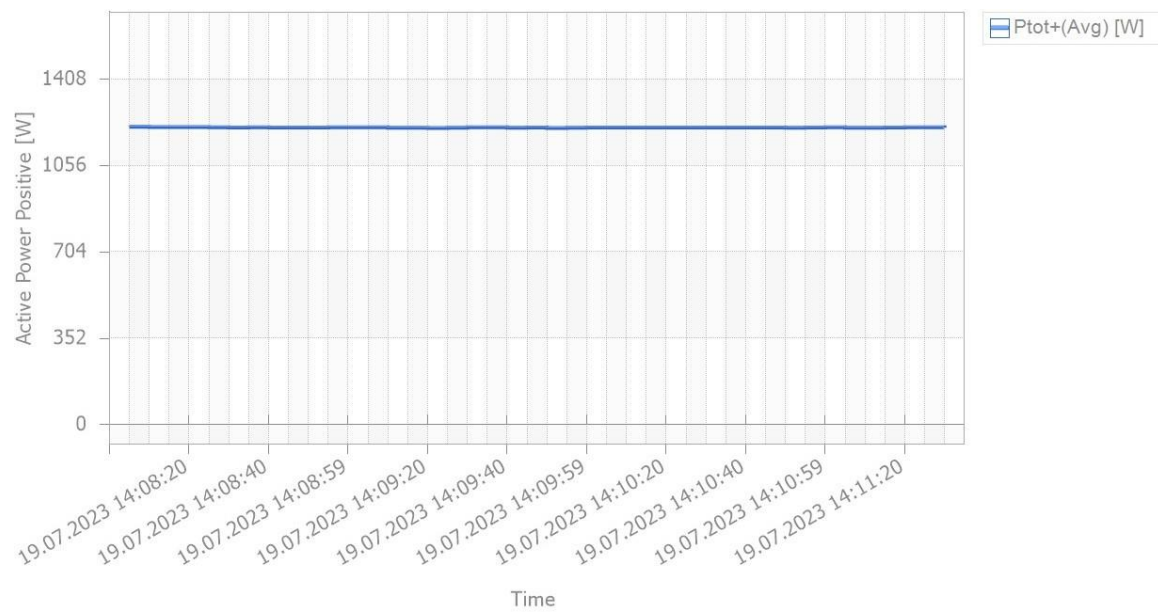
### Voltage Time Plot



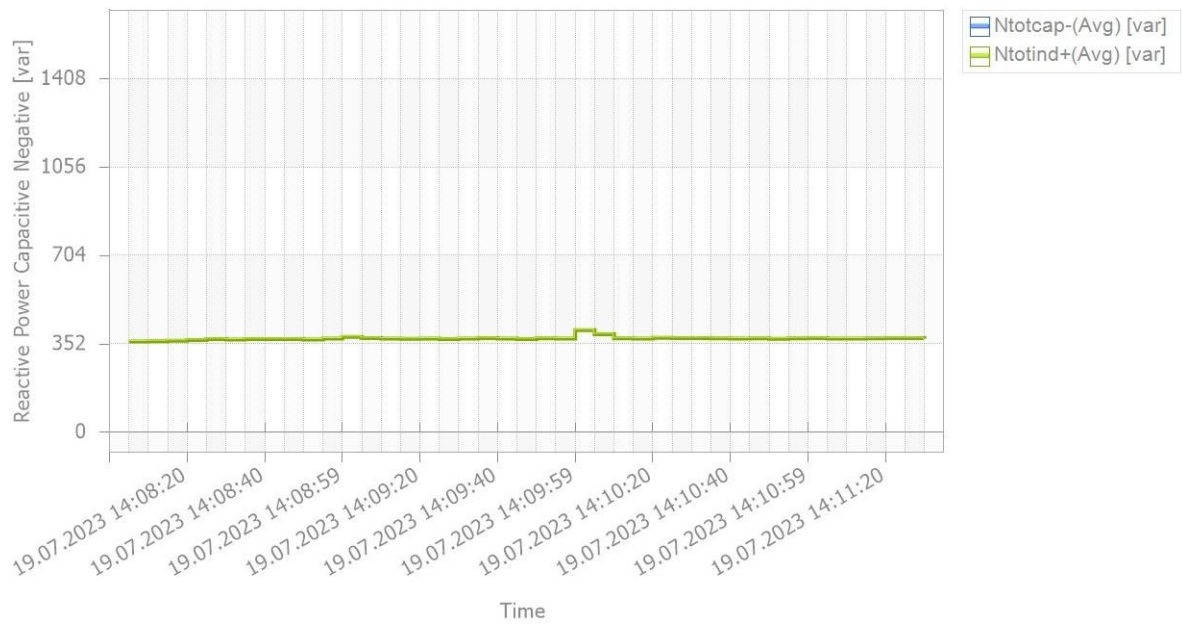
## Current Time Plot



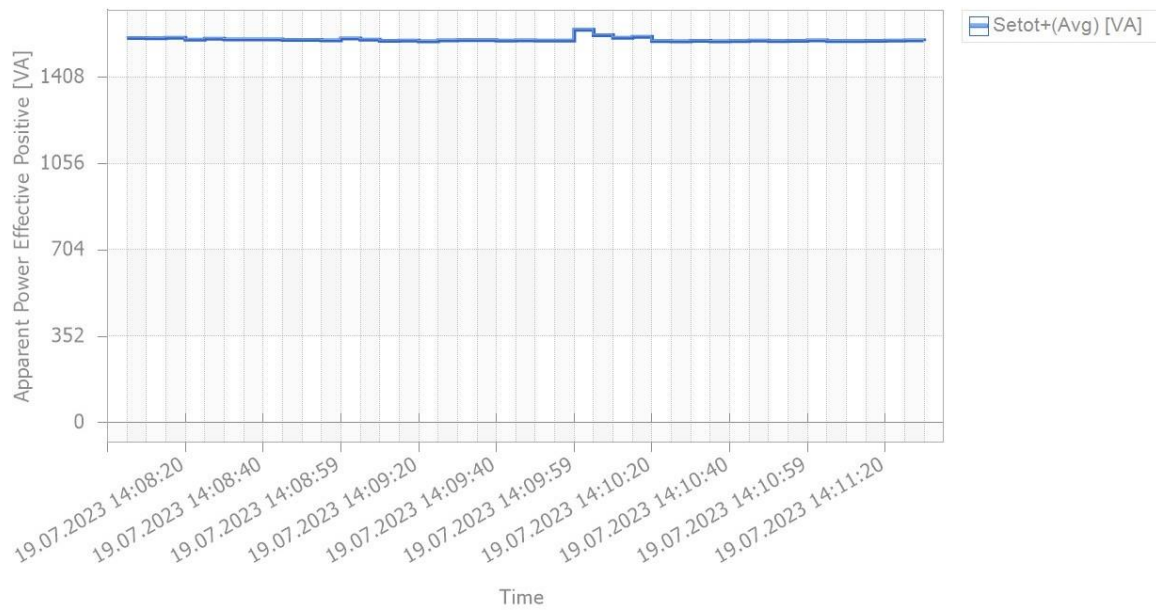
## Active Power Time Plot



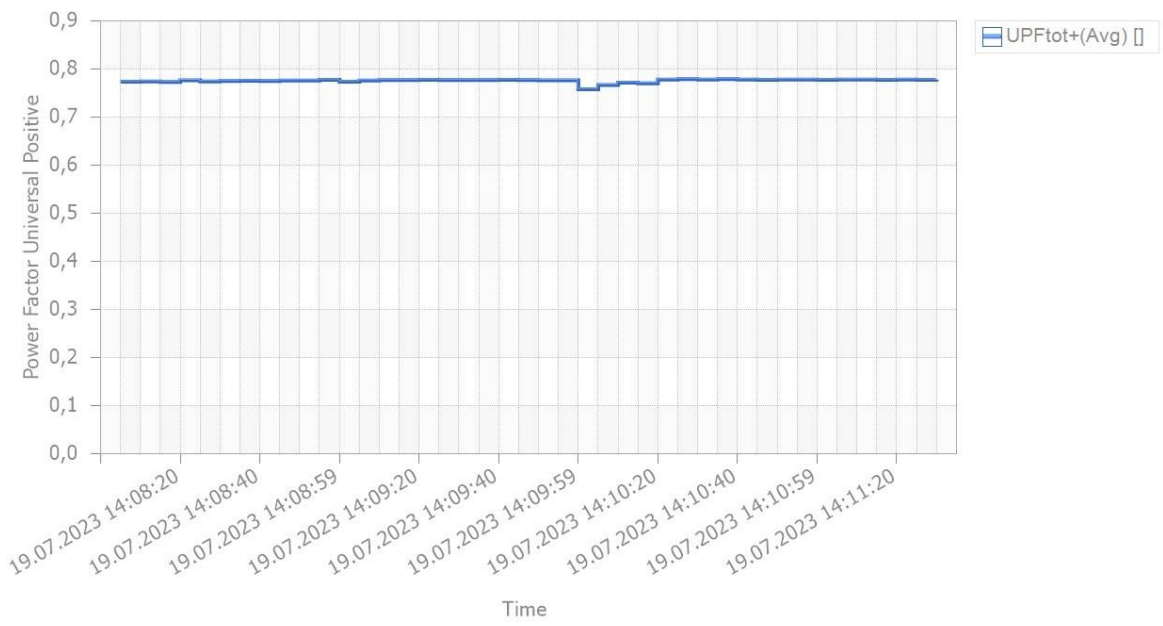
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



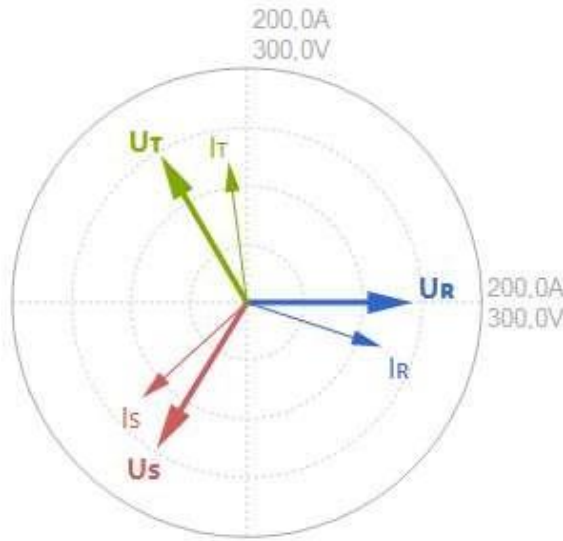
# MCC 1a-1b-1c Soğutma Grubu Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	377,76	376,14	374,30

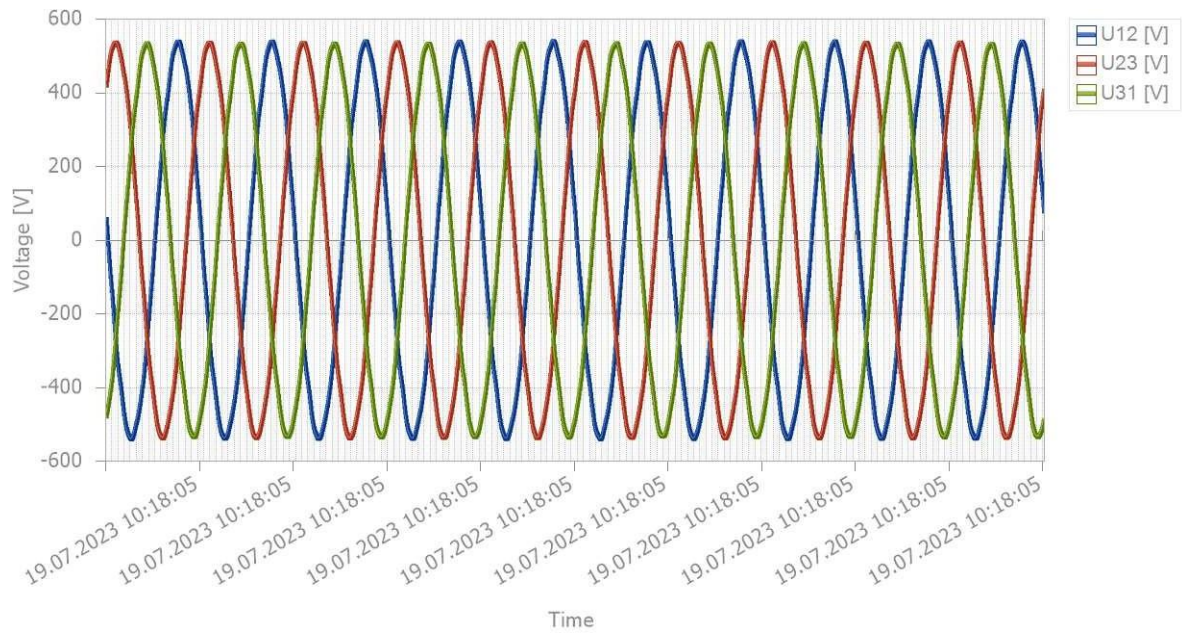
Item	R	S	T	N	Tot
Current [A]	125,74	125,80	125,93	93,64	
Load Factor [%]	99,81	99,85	99,96	74,33	
Active Power [kW]					74,82
Apparent Power [kVA]					81,96
Reactive Power [kvar]					34,00
Power Factor [%]					91,11
Frequency [Hz]					50,00

## Vector Diagram

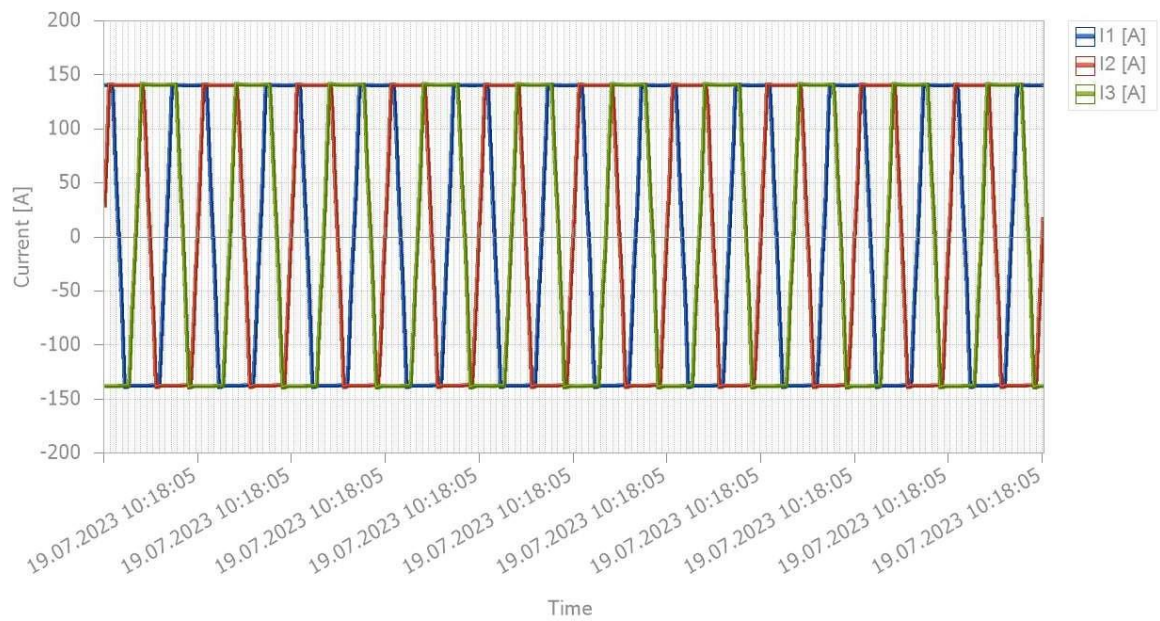


Item	Value	Angle
UR	212,53 V	0,00 °
US	219,79 V	-121,68 °
UT	218,79 V	120,32 °
IR	121,15 A	-18,19 °
IS	121,08 A	-137,70 °
IT	121,41 A	97,36 °

## Voltage Waveform



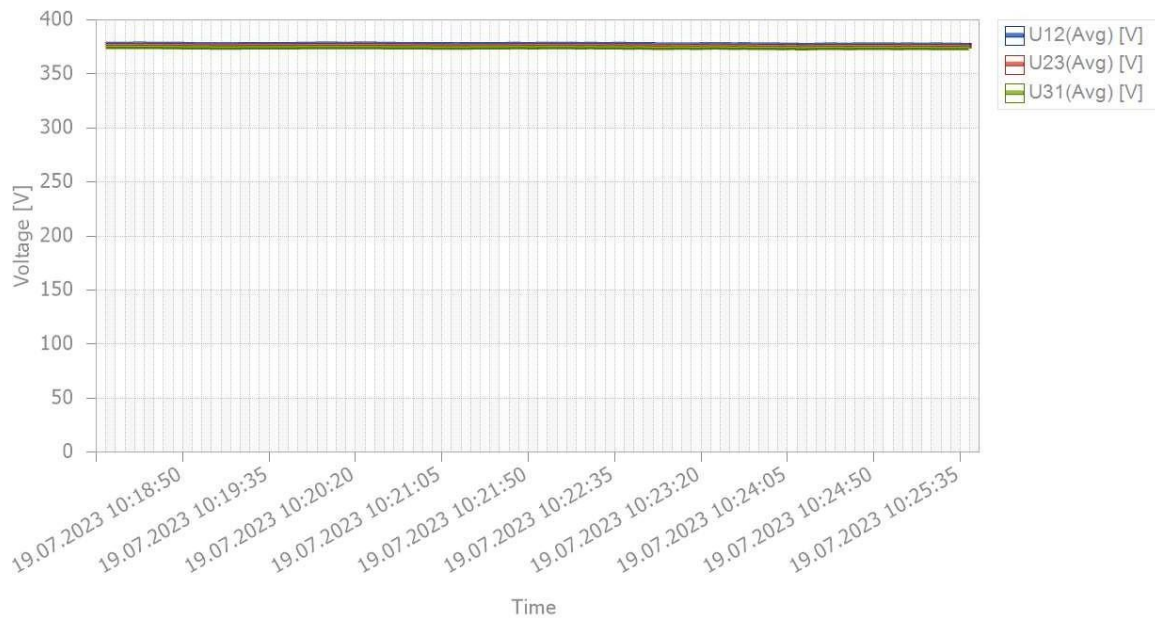
## Current Waveform



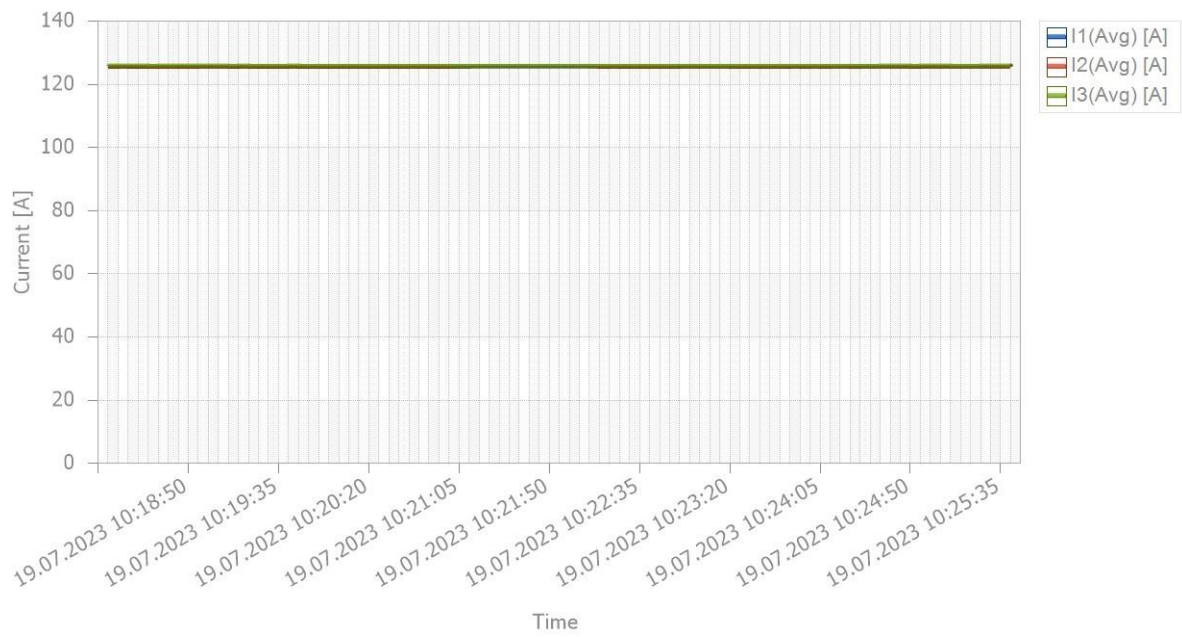
Item	Min	Time	Max	Time	Avg
UR [V]	212,06	19.07.2023 10:25:40	213,02	19.07.2023 10:18:25	212,64
US [V]	219,37	19.07.2023 10:25:40	220,17	19.07.2023 10:18:25	219,84
UT [V]	218,47	19.07.2023 10:25:40	219,41	19.07.2023 10:21:59	218,96
UR-S [V]	376,76	19.07.2023 10:25:40	378,35	19.07.2023 10:20:25	377,76
US-T [V]	375,26	19.07.2023 10:25:40	376,71	19.07.2023 10:18:25	376,14
UT-R [V]	373,51	19.07.2023 10:25:40	374,93	19.07.2023 10:18:25	374,30
IR [A]	125,64	19.07.2023 10:20:35	125,74	19.07.2023 10:24:45	125,69
IS [A]	125,54	19.07.2023 10:20:35	125,80	19.07.2023 10:22:05	125,62
IT [A]	125,84	19.07.2023 10:20:35	125,93	19.07.2023 10:18:45	125,88
IN [A]	93,18	19.07.2023 10:20:35	93,64	19.07.2023 10:22:05	93,43
P [kW]	74,38	19.07.2023 10:23:59	74,82	19.07.2023 10:21:20	74,57
Sv [kVA]	81,67	19.07.2023 10:25:40	81,96	19.07.2023 10:18:25	81,84
N [kvar]	33,22	19.07.2023 10:21:20	34,00	19.07.2023 10:19:59	33,73
PF	0,91	19.07.2023 10:19:59	0,91	19.07.2023 10:21:20	0,91
f [Hz]	49,97	19.07.2023 10:24:20	50,03	19.07.2023 10:18:30	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

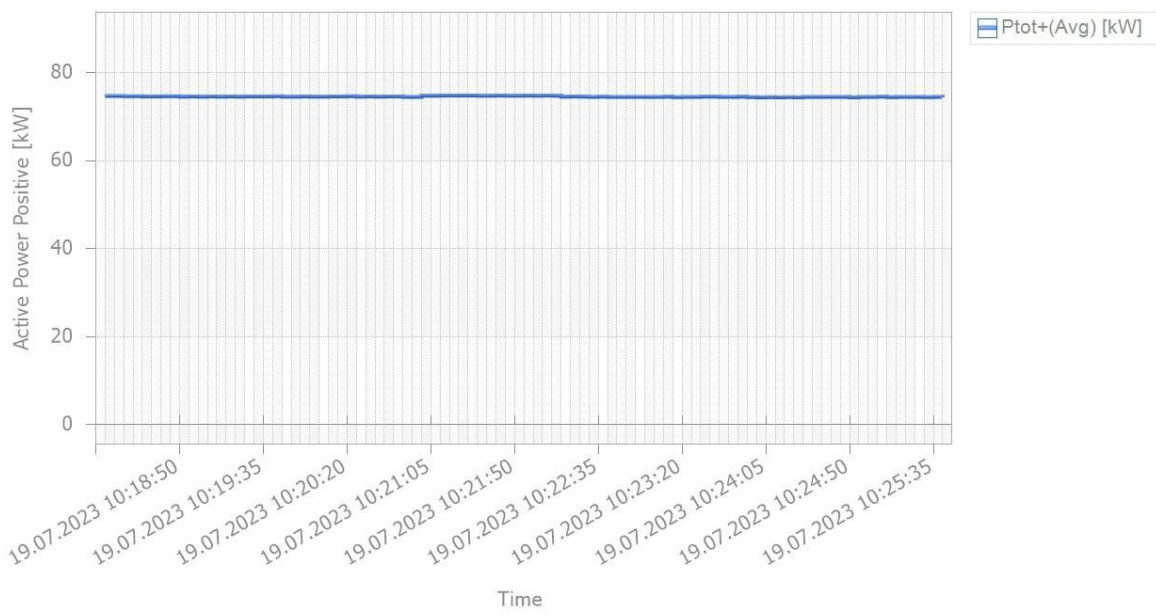
### Voltage Time Plot



## Current Time Plot

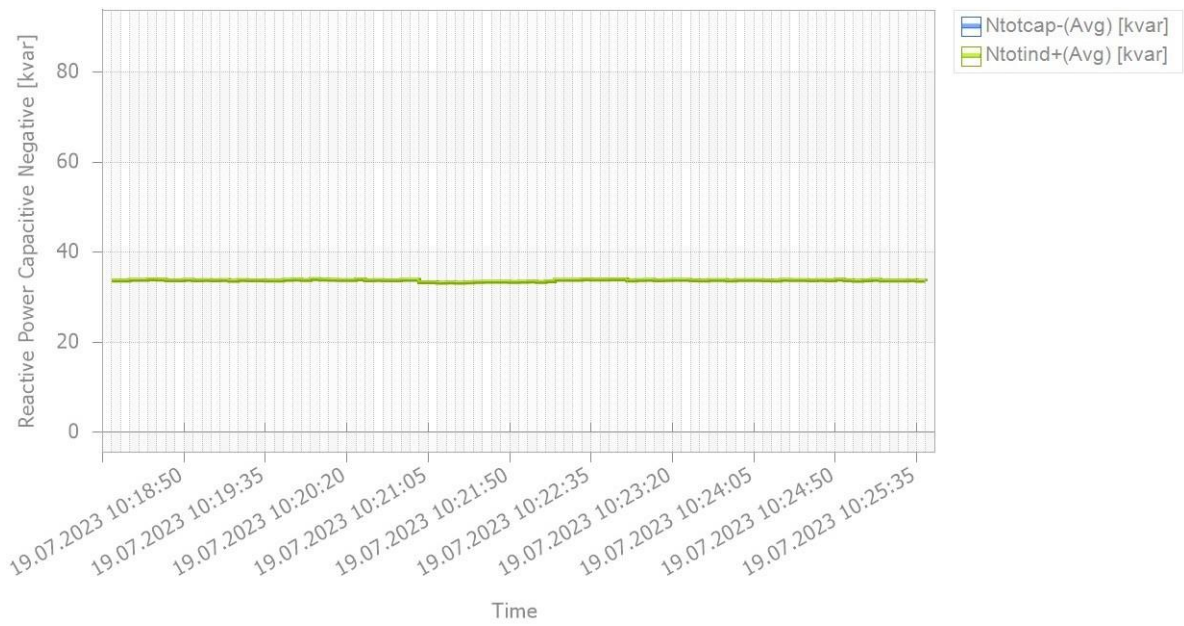


## Active Power Time Plot

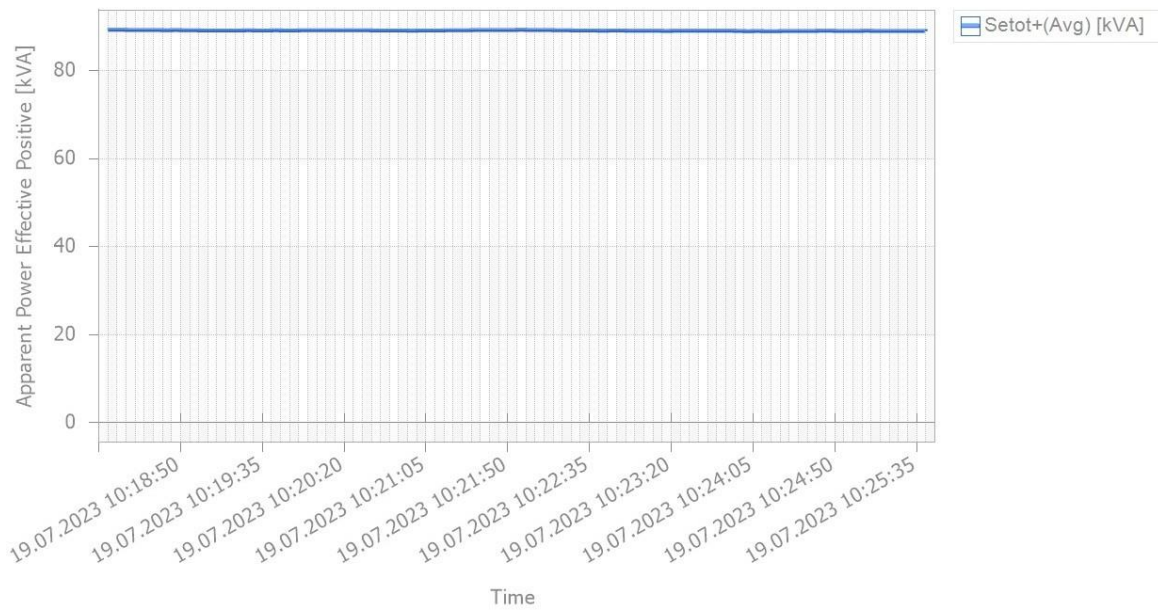




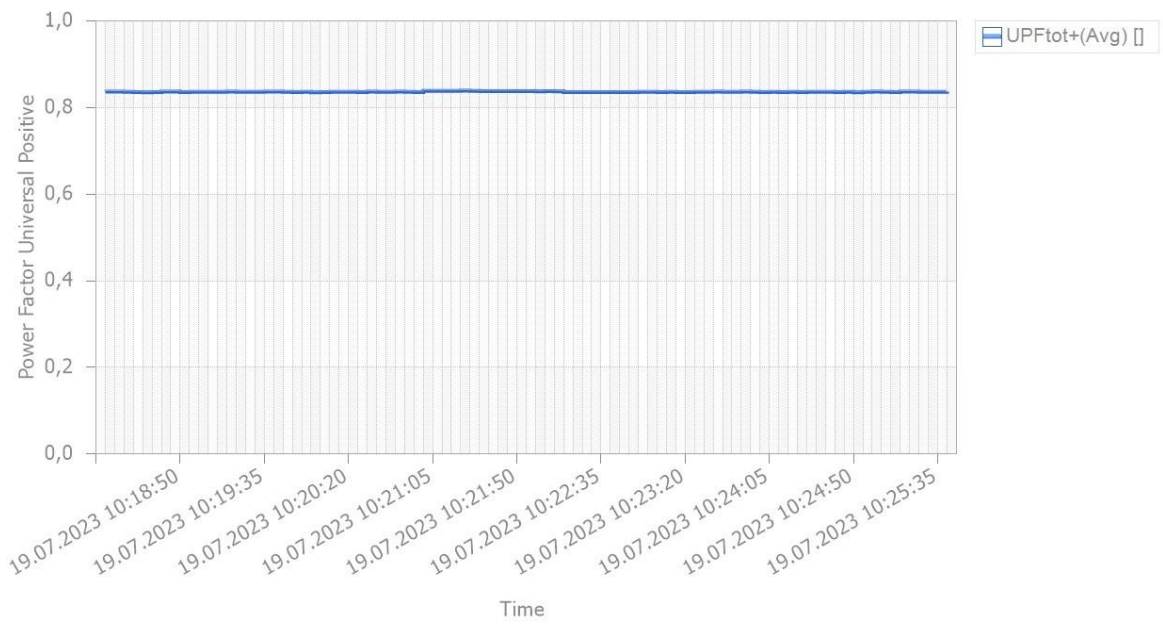
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



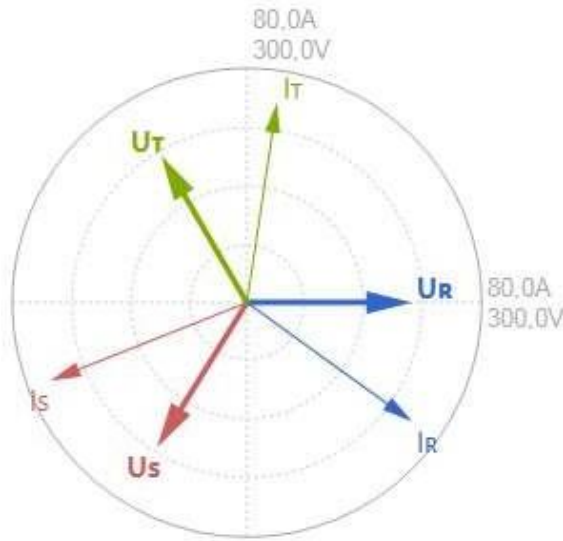
# MCC 2 Soğutma Grubu Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	376,18	374,69	372,83

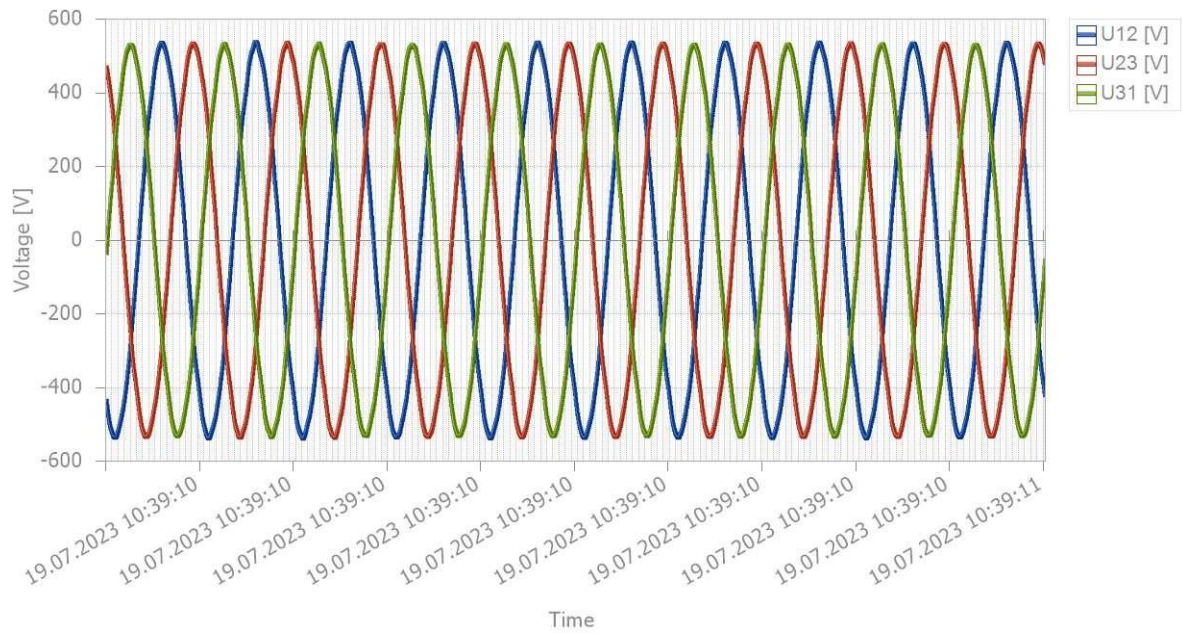
Item	R	S	T	N	Tot
Current [A]	70,58	73,19	70,18	1,25	
Load Factor [%]	95,66	99,20	95,13	1,69	
Active Power [kW]					37,06
Apparent Power [kVA]					46,26
Reactive Power [kvar]					27,74
Power Factor [%]					80,02
Frequency [Hz]					50,00

## Vector Diagram

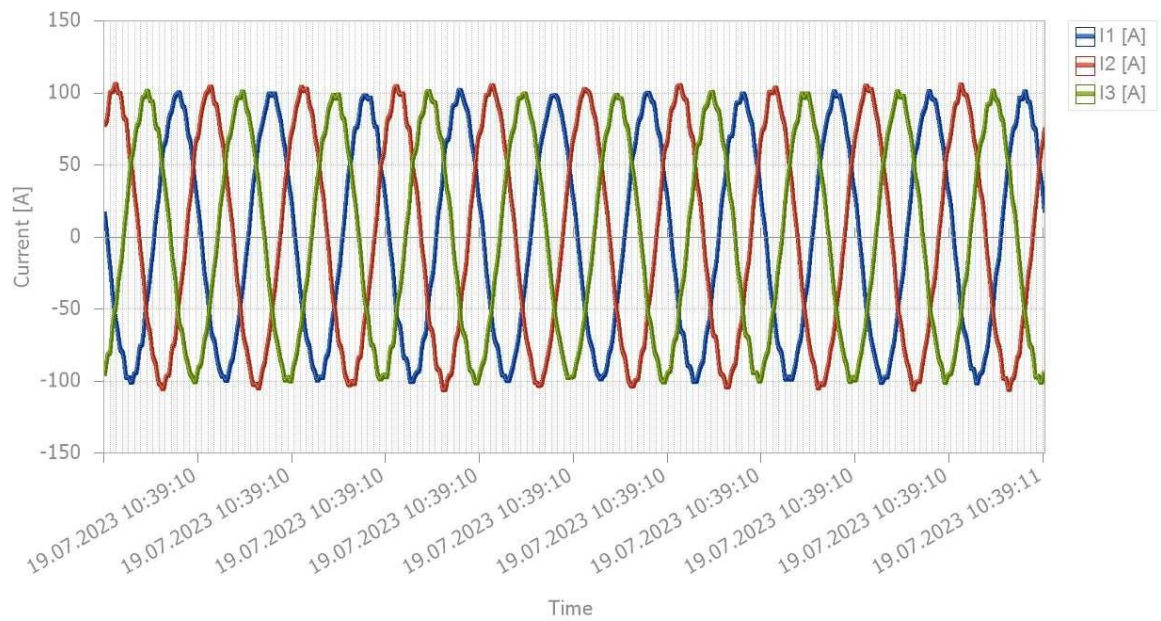


Item	Value	Angle
UR	210,97 V	0,00 °
US	218,24 V	-121,83 °
UT	217,88 V	120,20 °
IR	69,35 A	-35,80 °
IS	72,11 A	-158,30 °
IT	69,07 A	81,48 °

## Voltage Waveform



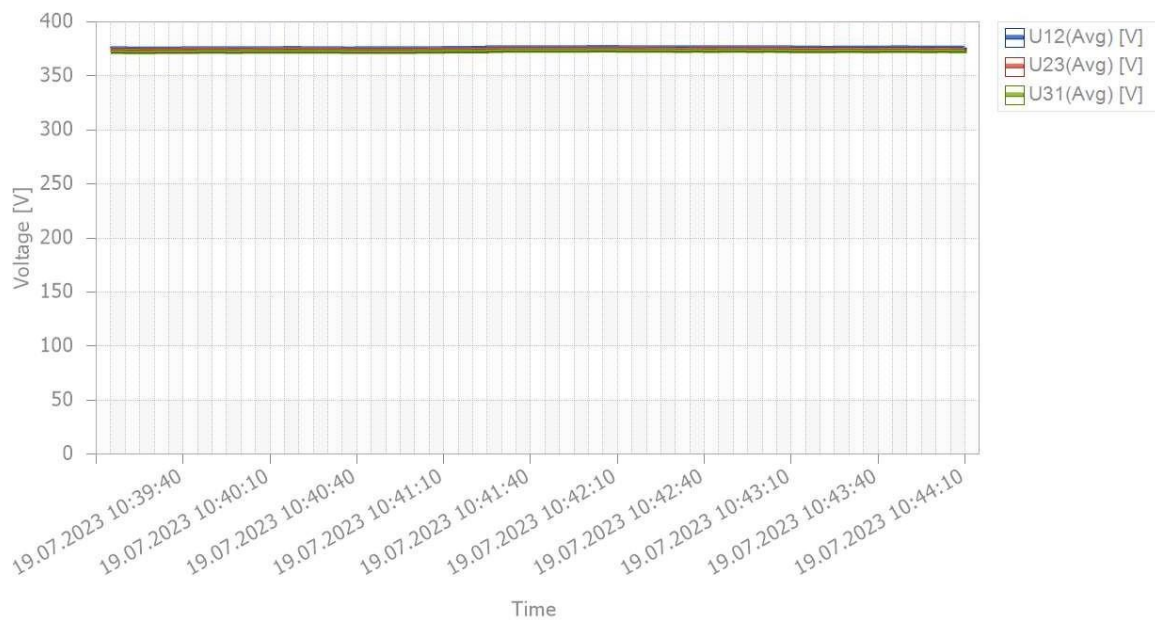
## Current Waveform



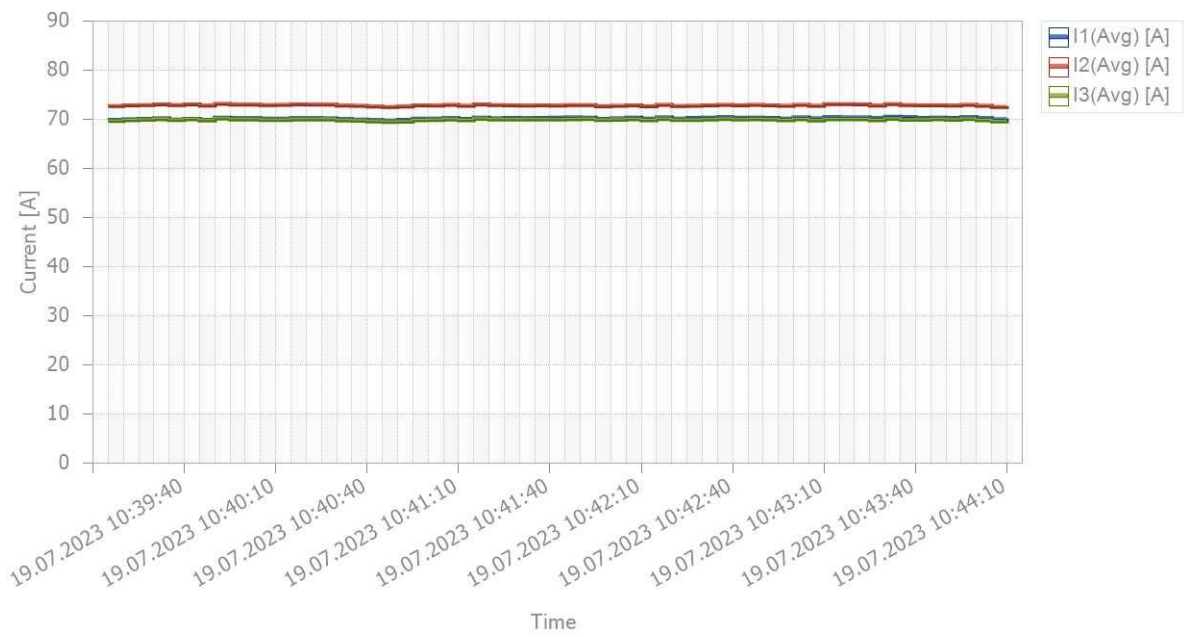
Item	Min	Time	Max	Time	Avg
UR [V]	211,06	19.07.2023 10:40:35	212,04	19.07.2023 10:41:59	211,52
US [V]	218,43	19.07.2023 10:40:35	218,90	19.07.2023 10:41:59	218,61
UT [V]	218,09	19.07.2023 10:39:25	219,16	19.07.2023 10:42:45	218,73
UR-S [V]	375,42	19.07.2023 10:39:20	376,76	19.07.2023 10:41:59	376,18
US-T [V]	374,09	19.07.2023 10:39:20	375,25	19.07.2023 10:41:59	374,69
UT-R [V]	372,09	19.07.2023 10:39:20	373,49	19.07.2023 10:41:59	372,83
IR [A]	69,81	19.07.2023 10:40:45	70,58	19.07.2023 10:43:30	70,25
IS [A]	72,53	19.07.2023 10:40:45	73,19	19.07.2023 10:39:50	72,89
IT [A]	69,48	19.07.2023 10:40:45	70,18	19.07.2023 10:39:50	69,93
IN [A]	1,22	19.07.2023 10:40:45	1,25	19.07.2023 10:43:20	1,23
P [kW]	36,57	19.07.2023 10:40:45	37,06	19.07.2023 10:43:30	36,87
Sv [kVA]	45,75	19.07.2023 10:40:45	46,26	19.07.2023 10:43:30	46,08
N [kvar]	27,48	19.07.2023 10:40:45	27,74	19.07.2023 10:42:15	27,63
PF	0,80	19.07.2023 10:41:55	0,80	19.07.2023 10:39:50	0,80
f [Hz]	49,98	19.07.2023 10:39:59	50,02	19.07.2023 10:42:45	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

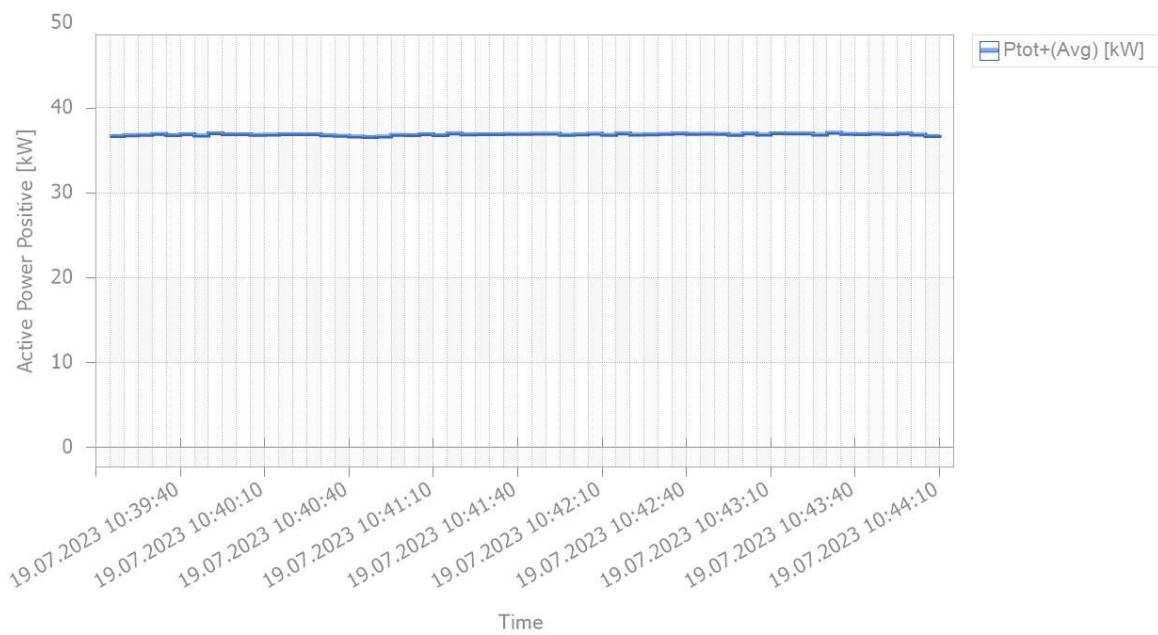
### Voltage Time Plot



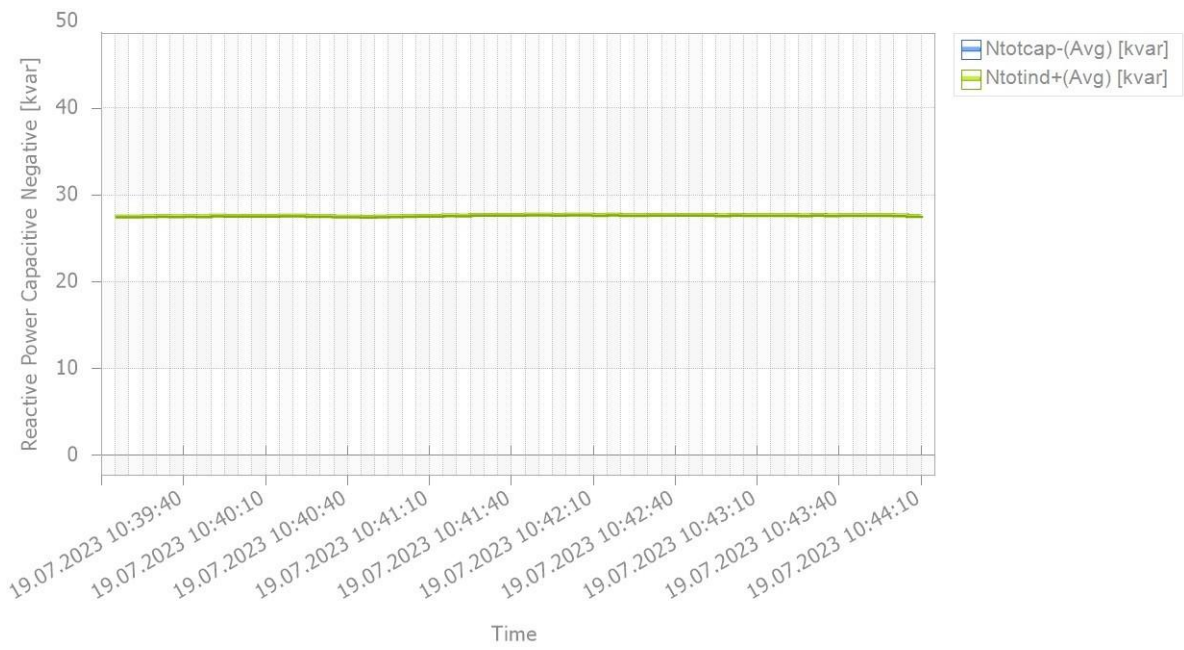
## Current Time Plot



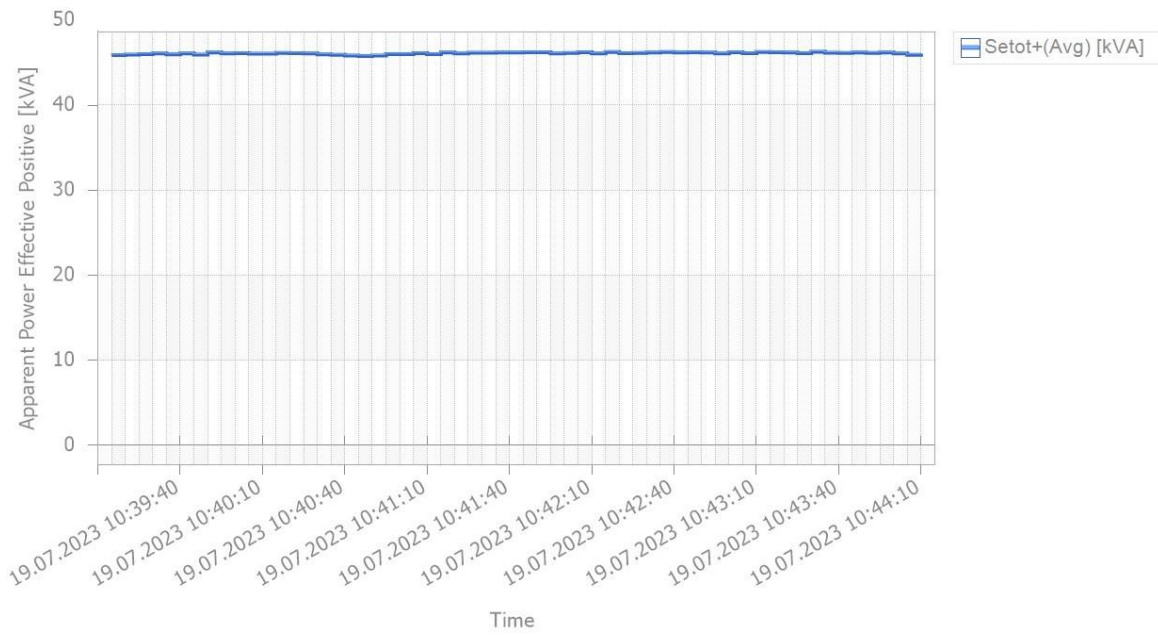
## Active Power Time Plot



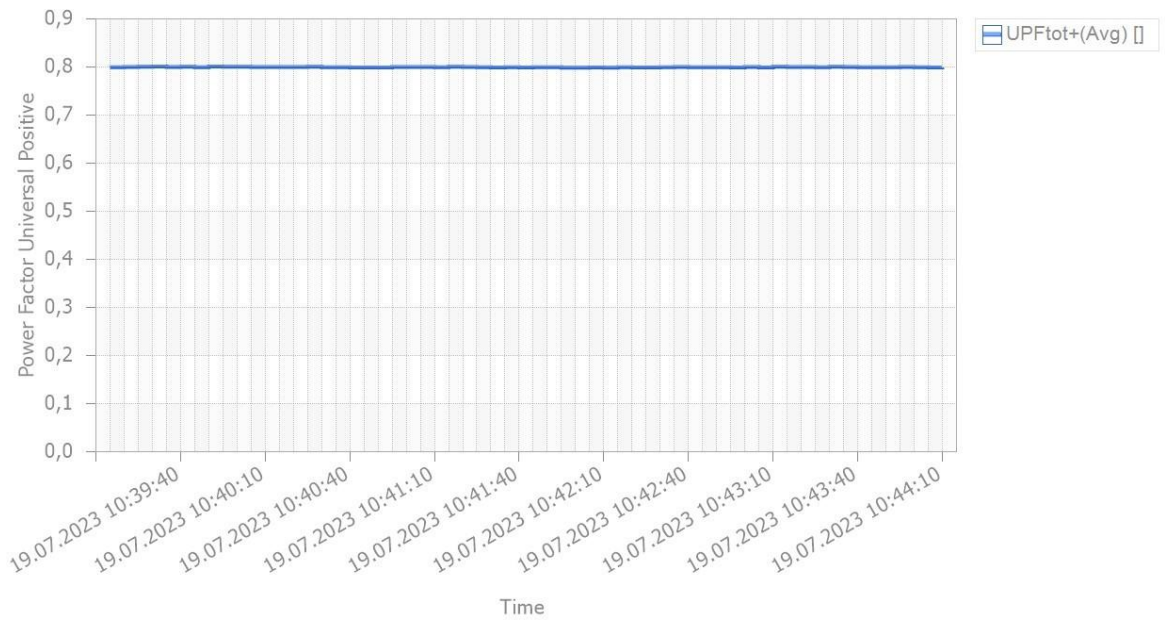
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot





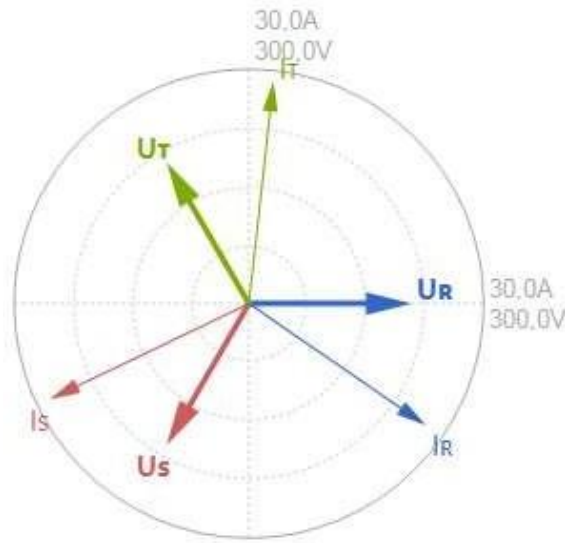
# Morfoloji (Tıp Fakültesi) Sirkülasyon Pompaları Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	363,98	364,41	363,52

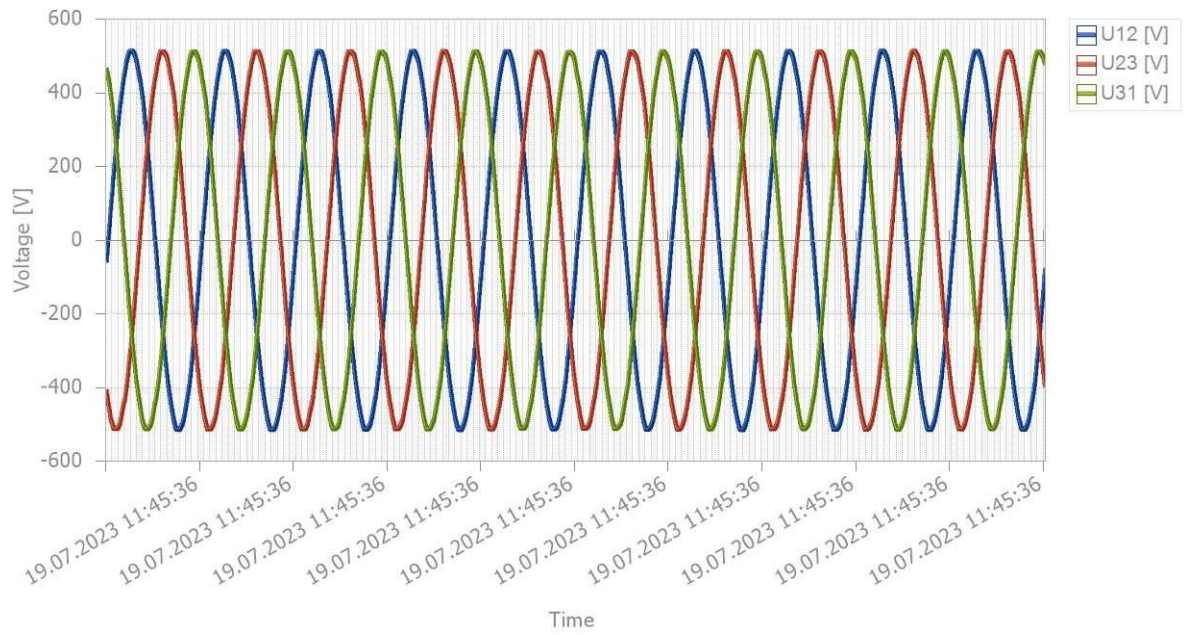
Item	R	S	T	N	Tot
Current [A]	27,54	28,24	28,72	0,83	
Load Factor [%]	94,09	96,51	98,13	2,83	
Active Power [kW]					14,47
Apparent Power [kVA]					17,82
Reactive Power [kvar]					10,50
Power Factor [%]					81,41
Frequency [Hz]					50,00

## Vector Diagram

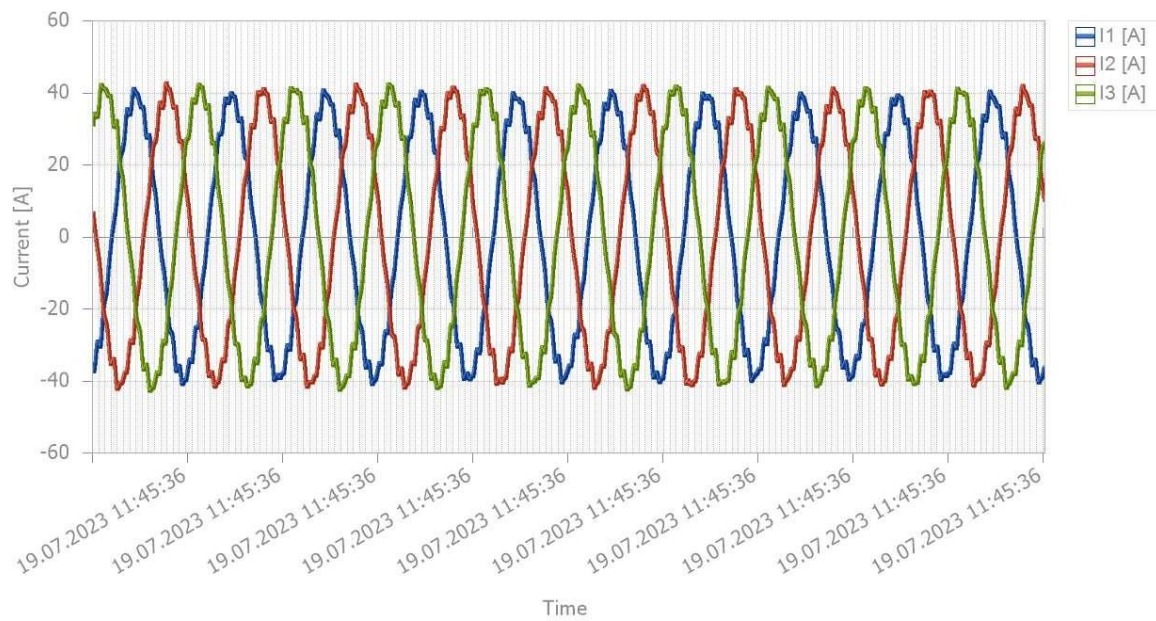


Item	Value	Angle
UR	207,91 V	0,00 °
US	209,89 V	-120,16 °
UT	209,36 V	120,15 °
IR	27,47 A	-34,56 °
IS	28,23 A	-154,31 °
IT	28,65 A	83,72 °

## Voltage Waveform



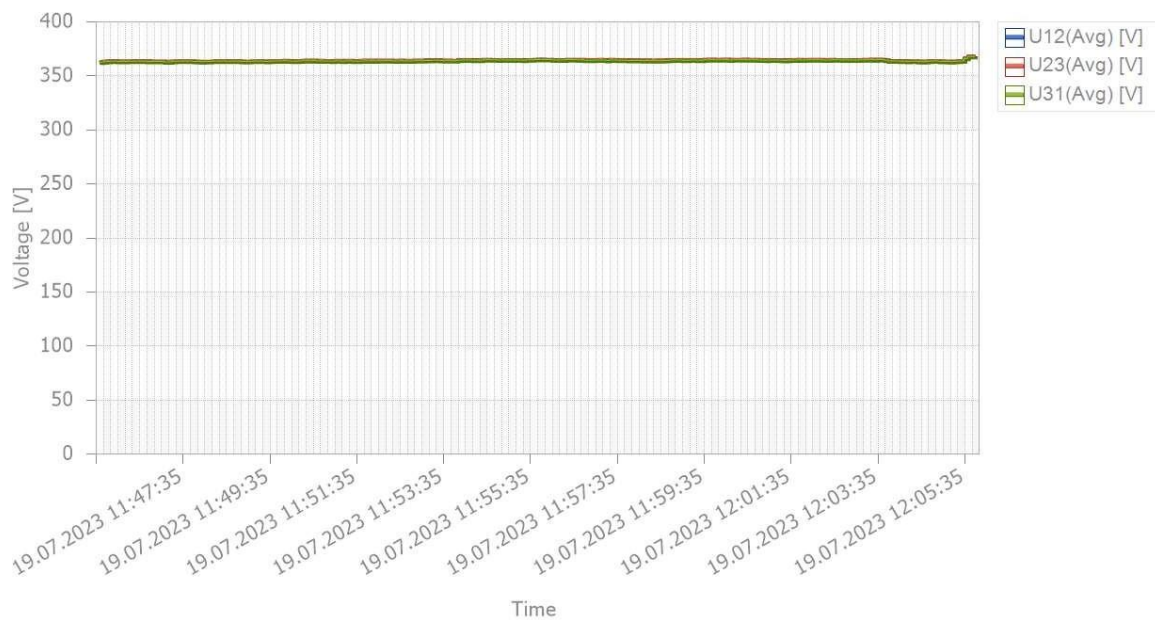
## Current Waveform



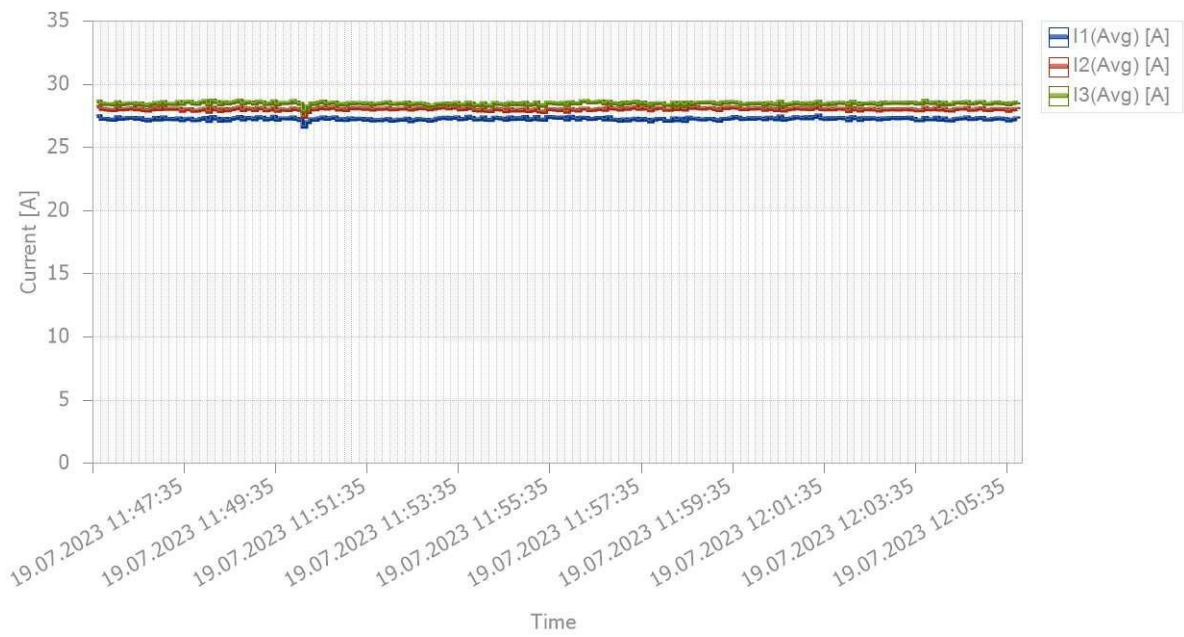
Item	Min	Time	Max	Time	Avg
UR [V]	207,98	19.07.2023 11:47:59	210,99	19.07.2023 12:05:50	208,92
US [V]	210,12	19.07.2023 11:45:40	213,46	19.07.2023 12:05:50	211,17
UT [V]	209,57	19.07.2023 11:45:40	212,57	19.07.2023 12:05:50	210,35
UR-S [V]	362,55	19.07.2023 11:45:40	367,72	19.07.2023 12:05:50	363,98
US-T [V]	362,92	19.07.2023 11:45:40	368,21	19.07.2023 12:05:50	364,41
UT-R [V]	362,04	19.07.2023 11:45:40	367,40	19.07.2023 12:05:50	363,52
IR [A]	26,64	19.07.2023 11:50:10	27,54	19.07.2023 12:01:25	27,27
IS [A]	27,43	19.07.2023 11:50:10	28,24	19.07.2023 12:01:25	28,04
IT [A]	27,89	19.07.2023 11:50:10	28,72	19.07.2023 11:48:09	28,50
IN [A]	0,74	19.07.2023 11:46:45	0,83	19.07.2023 11:53:15	0,76
P [kW]	13,91	19.07.2023 11:50:10	14,47	19.07.2023 12:01:25	14,34
Sv [kVA]	17,20	19.07.2023 11:50:10	17,82	19.07.2023 12:05:50	17,61
N [kvar]	10,11	19.07.2023 11:50:10	10,50	19.07.2023 12:05:50	10,23
PF	0,81	19.07.2023 12:05:40	0,82	19.07.2023 11:45:40	0,81
f [Hz]	49,97	19.07.2023 11:53:05	50,03	19.07.2023 12:03:55	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

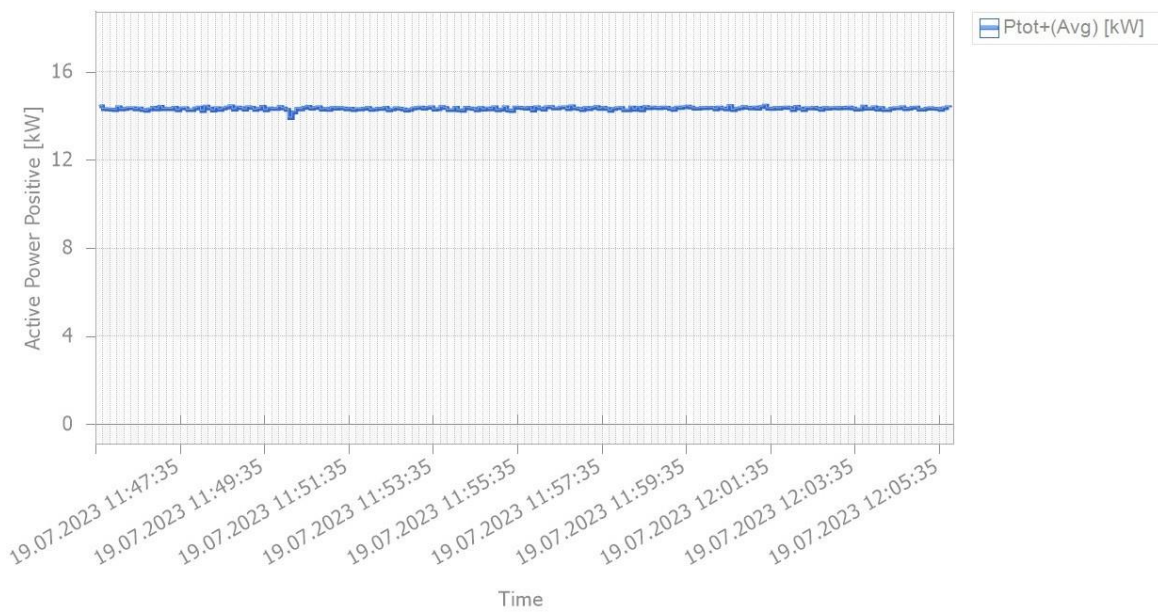
### Voltage Time Plot



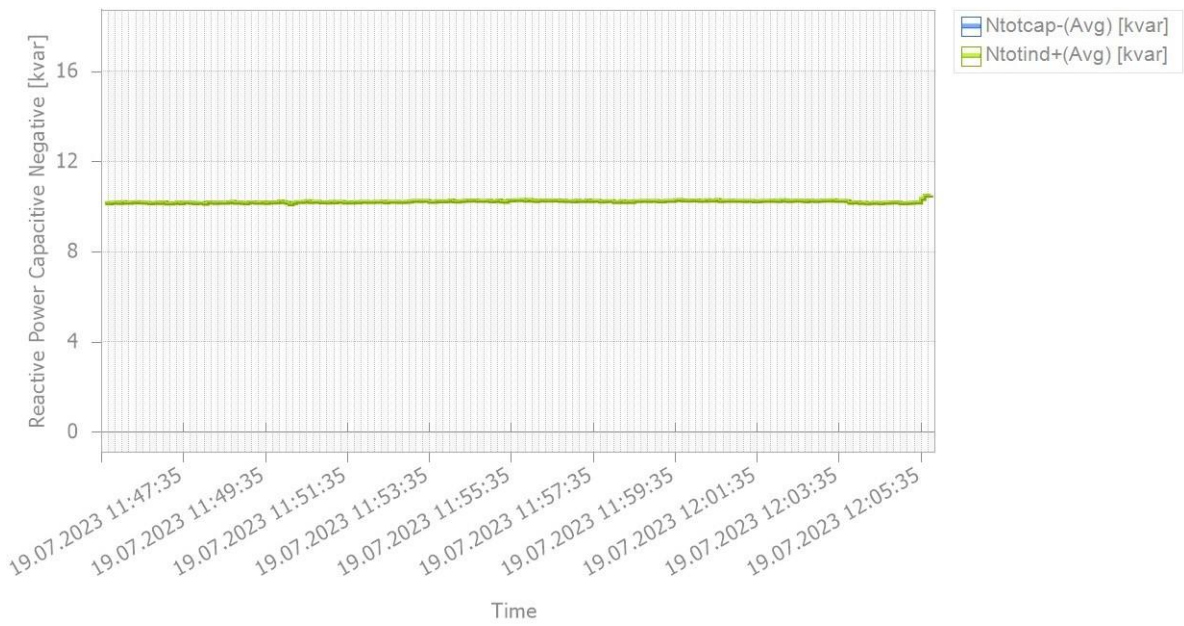
## Current Time Plot



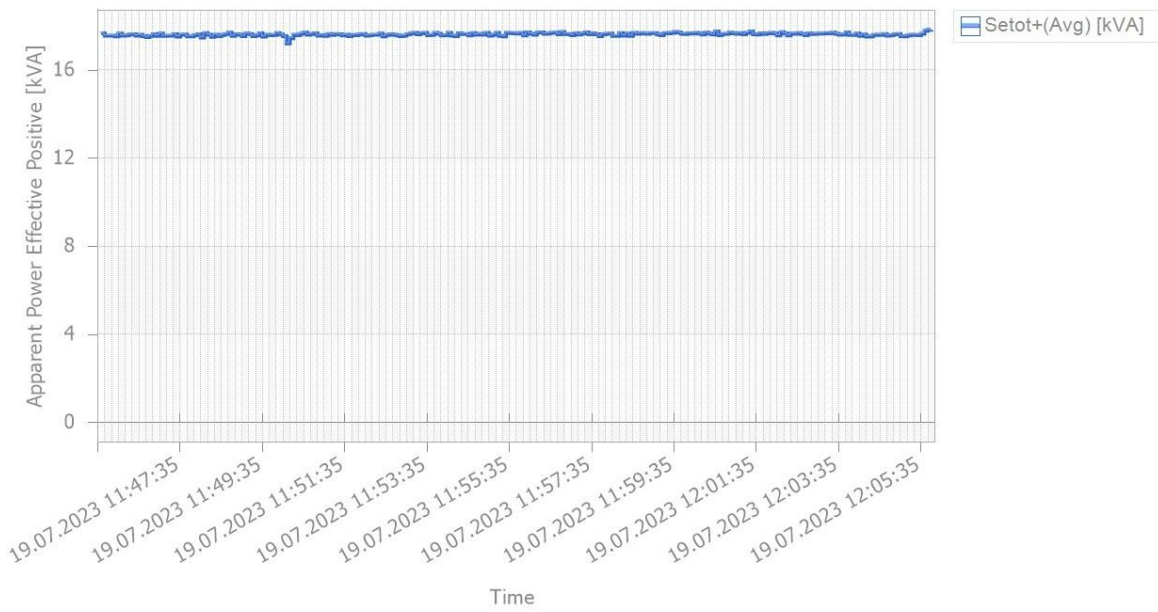
## Active Power Time Plot



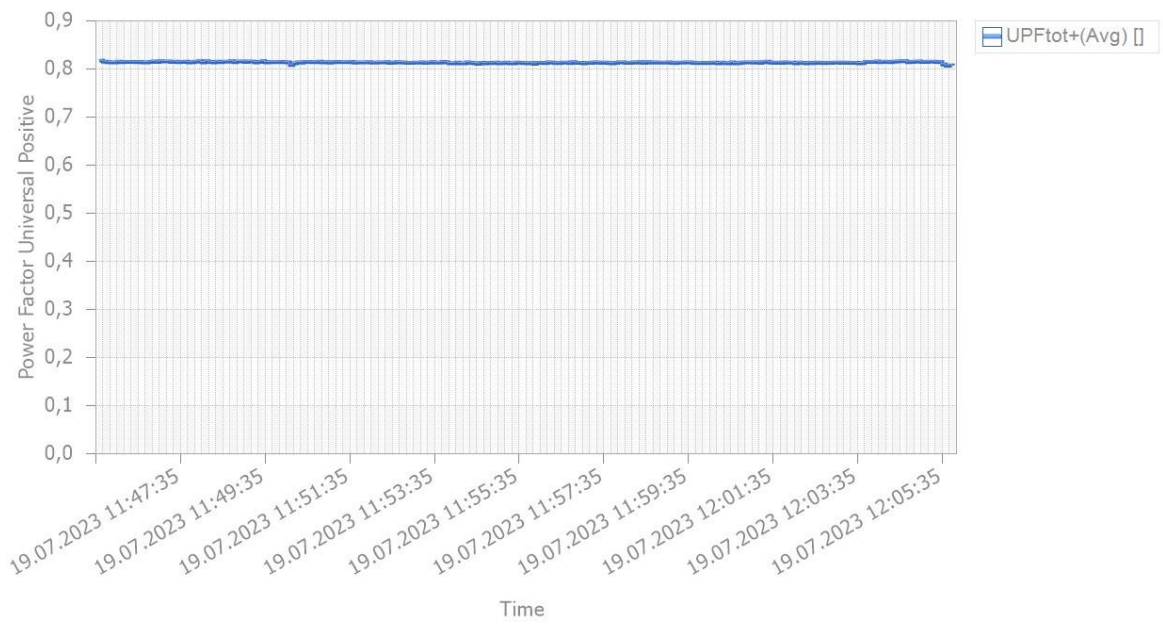
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



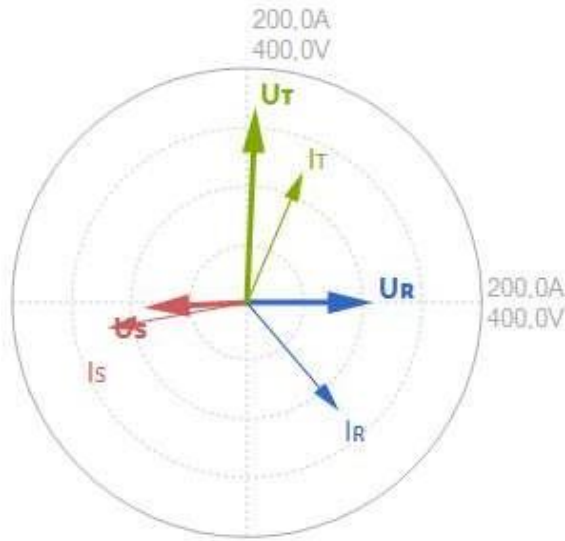
# Sirkülasyon Pompası Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	392,55	392,60	390,27

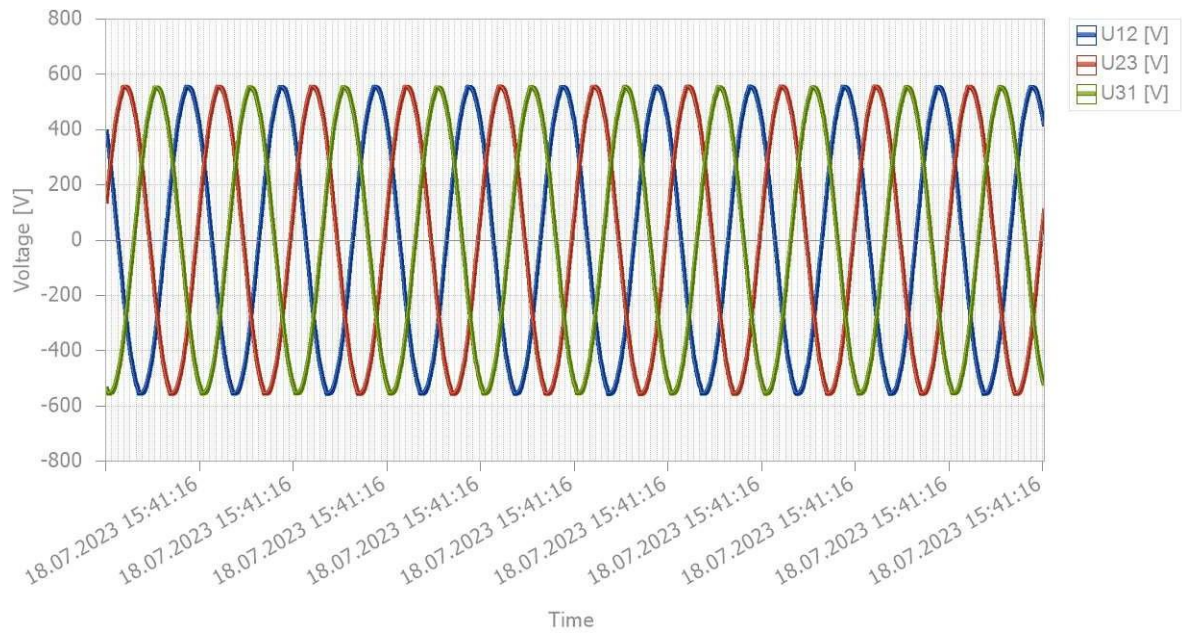
Item	R	S	T	N	Tot
Current [A]	125,99	125,89	126,20	93,23	
Load Factor [%]	99,82	99,74	99,98	73,87	
Active Power [kW]					76,41
Apparent Power [kVA]					83,20
Reactive Power [kvar]					33,11
Power Factor [%]					91,80
Frequency [Hz]					50,00

## Vector Diagram

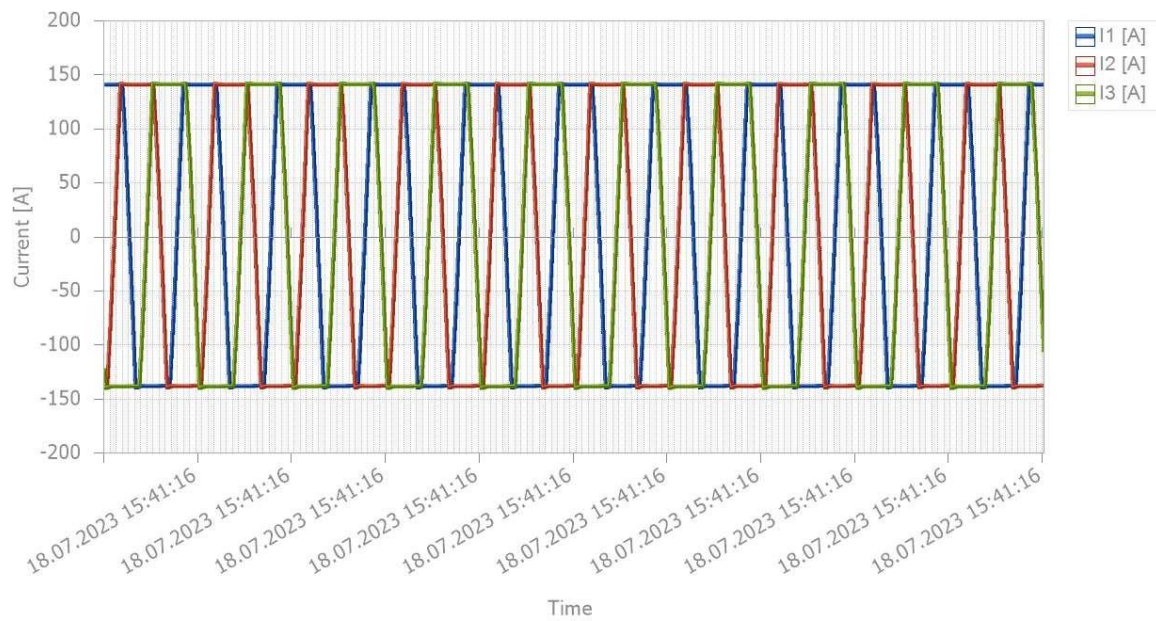


Item	Value	Angle
UR	215,86 V	0,00 °
US	176,17 V	-177,11 °
UT	333,90 V	87,49 °
IR	121,45 A	-49,62 °
IS	121,39 A	-169,61 °
IT	121,71 A	66,84 °

## Voltage Waveform



## Current Waveform

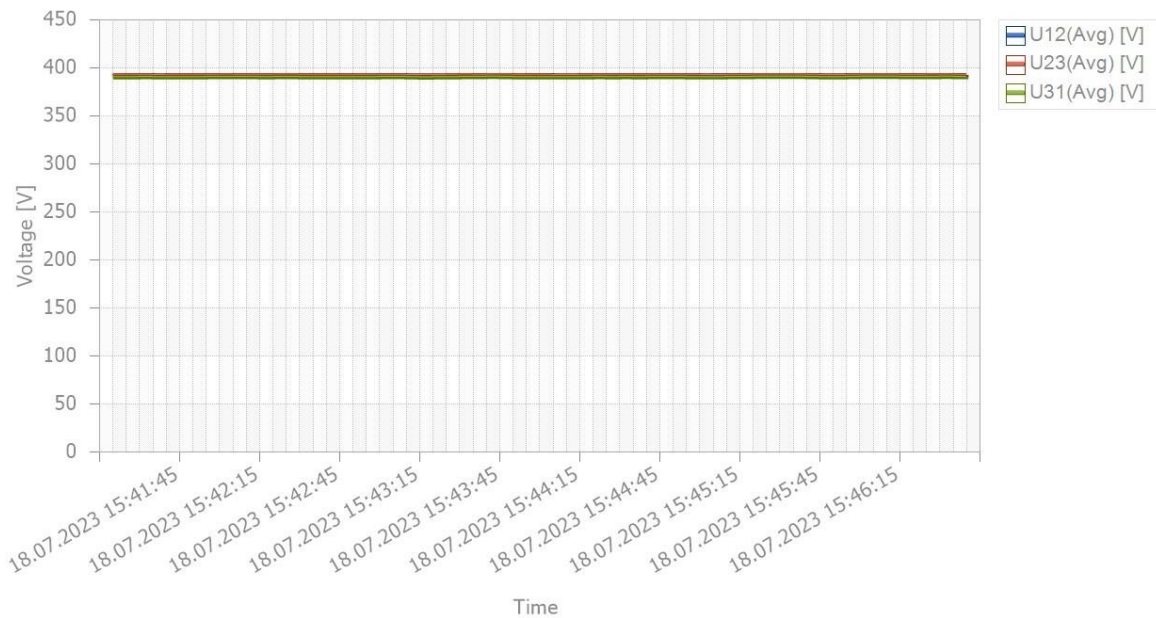




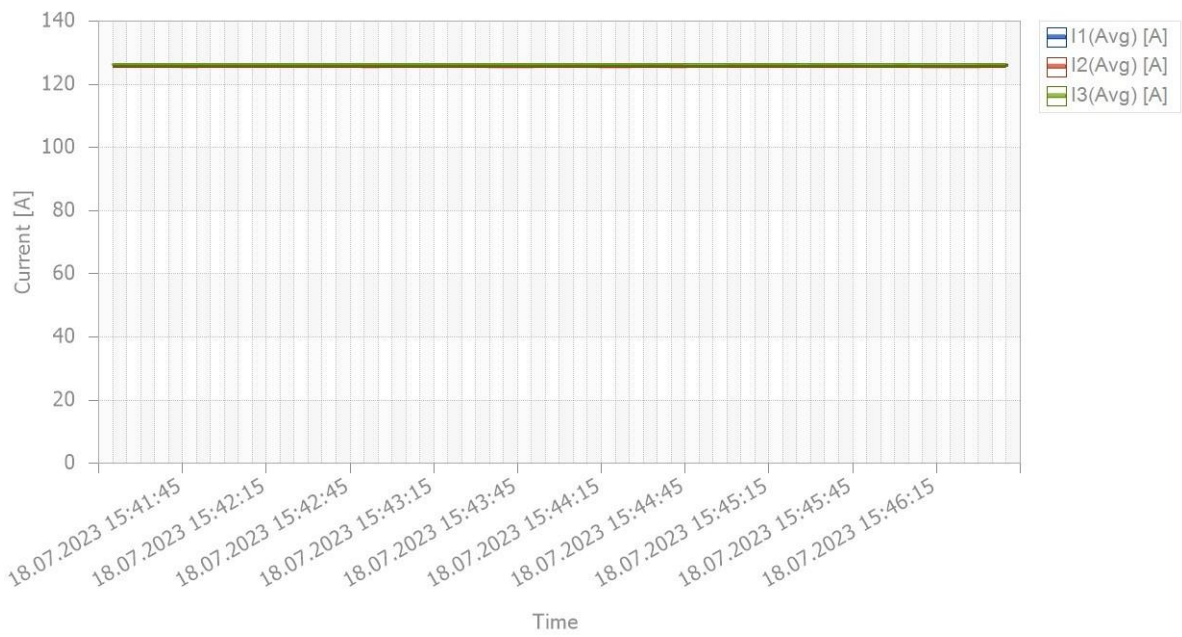
Item	Min	Time	Max	Time	Avg
UR [V]	216,17	18.07.2023 15:43:15	216,54	18.07.2023 15:45:35	216,35
US [V]	176,36	18.07.2023 15:43:15	176,67	18.07.2023 15:45:35	176,50
UT [V]	334,29	18.07.2023 15:43:15	334,83	18.07.2023 15:45:35	334,61
UR-S [V]	392,23	18.07.2023 15:43:15	392,91	18.07.2023 15:45:35	392,55
US-T [V]	392,26	18.07.2023 15:43:15	392,88	18.07.2023 15:42:25	392,60
UT-R [V]	389,92	18.07.2023 15:43:15	390,57	18.07.2023 15:46:05	390,27
IR [A]	125,91	18.07.2023 15:44:25	125,99	18.07.2023 15:42:10	125,94
IS [A]	125,80	18.07.2023 15:43:45	125,89	18.07.2023 15:42:05	125,84
IT [A]	126,11	18.07.2023 15:45:45	126,20	18.07.2023 15:43:05	126,15
IN [A]	92,92	18.07.2023 15:44:45	93,23	18.07.2023 15:42:05	93,04
P [kW]	76,21	18.07.2023 15:43:50	76,41	18.07.2023 15:42:25	76,32
Sv [kVA]	83,06	18.07.2023 15:44:05	83,20	18.07.2023 15:45:35	83,13
N [kvar]	32,81	18.07.2023 15:45:50	33,11	18.07.2023 15:43:55	32,96
PF	0,92	18.07.2023 15:43:55	0,92	18.07.2023 15:45:50	0,92
f [Hz]	49,98	18.07.2023 15:43:55	50,03	18.07.2023 15:42:40	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

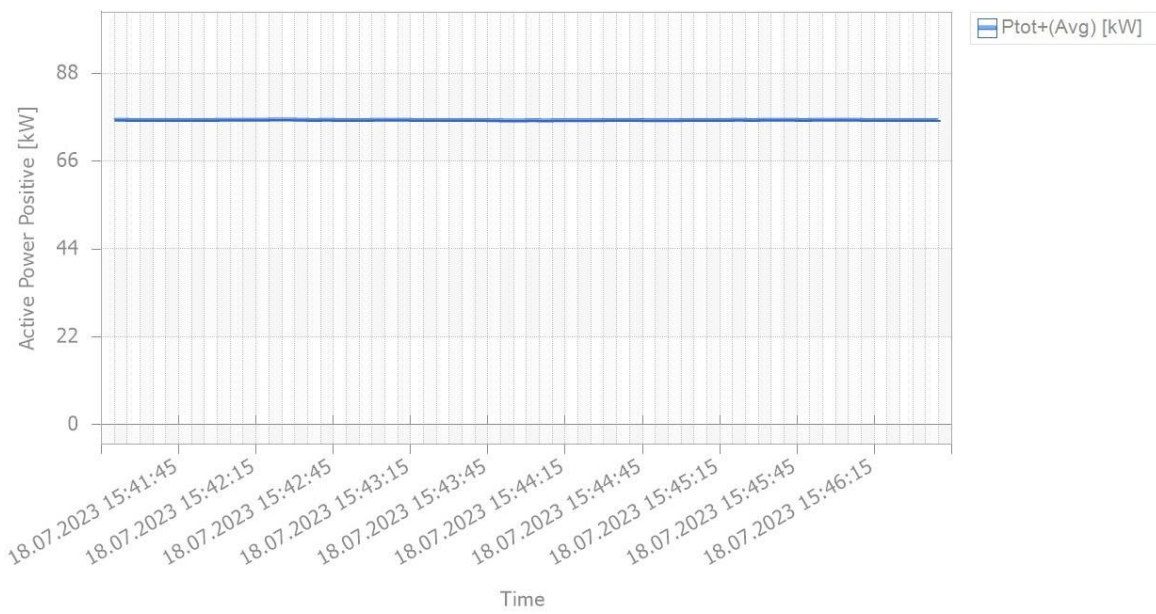
### Voltage Time Plot



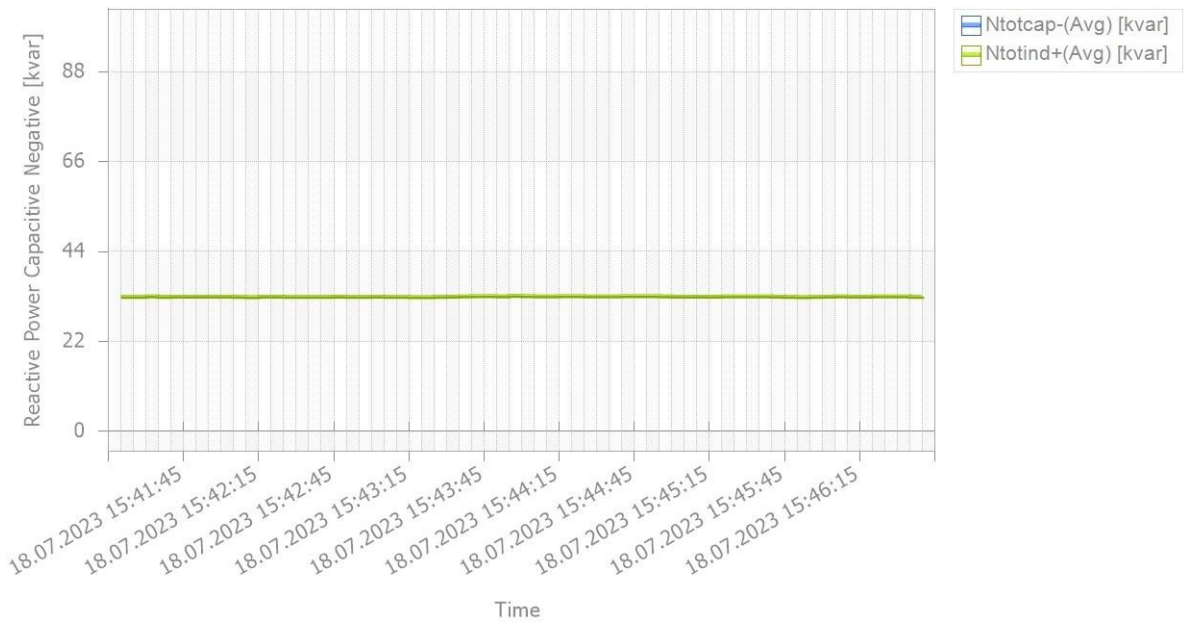
## Current Time Plot



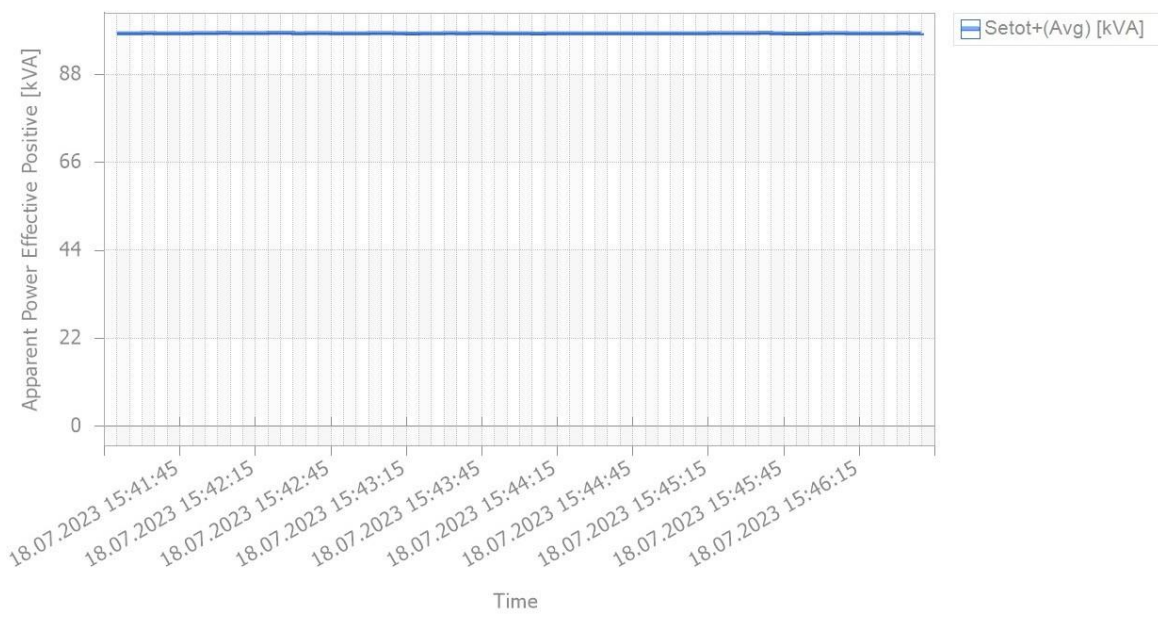
## Active Power Time Plot



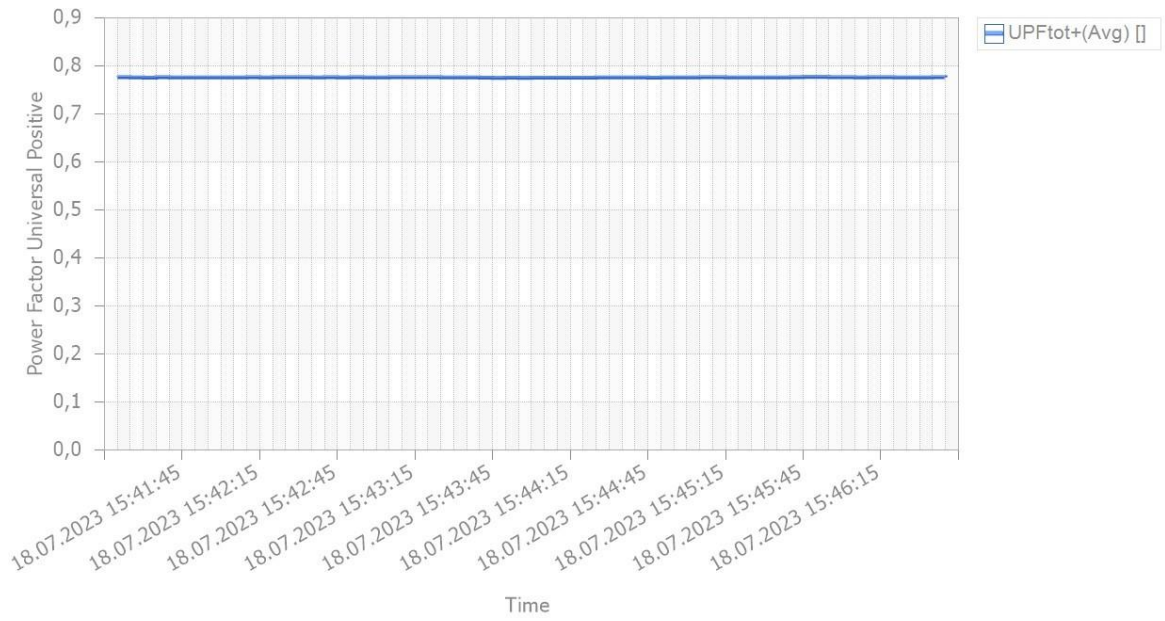
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



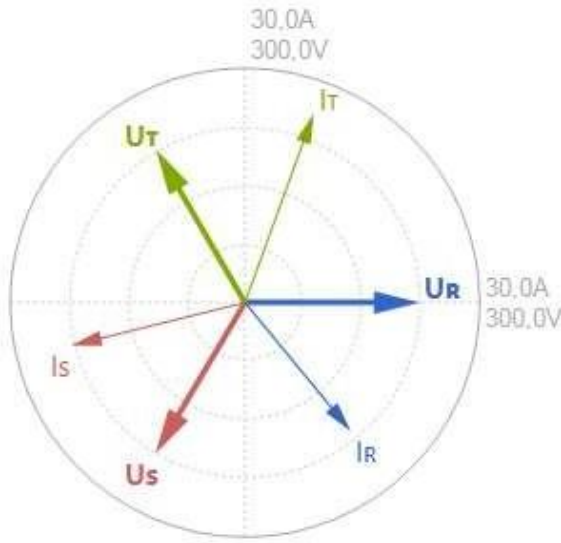
# A2 Zon 2 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	391,14	390,47	389,99

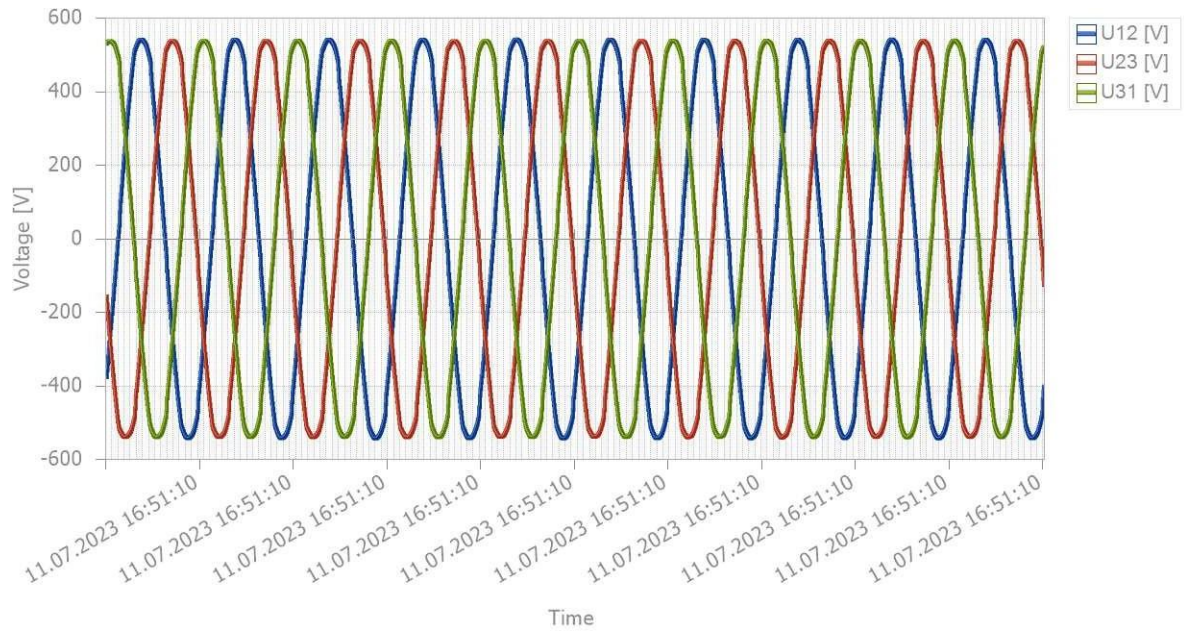
Item	R	S	T	N	Tot
Current [A]	23,43	24,64	26,07	13,98	
Load Factor [%]	80,46	84,59	89,52	48,00	
Active Power [kW]					10,55
Apparent Power [kVA]					16,34
Reactive Power [kvar]					12,69
Power Factor [%]					7,54
Frequency [Hz]					50,04

## Vector Diagram

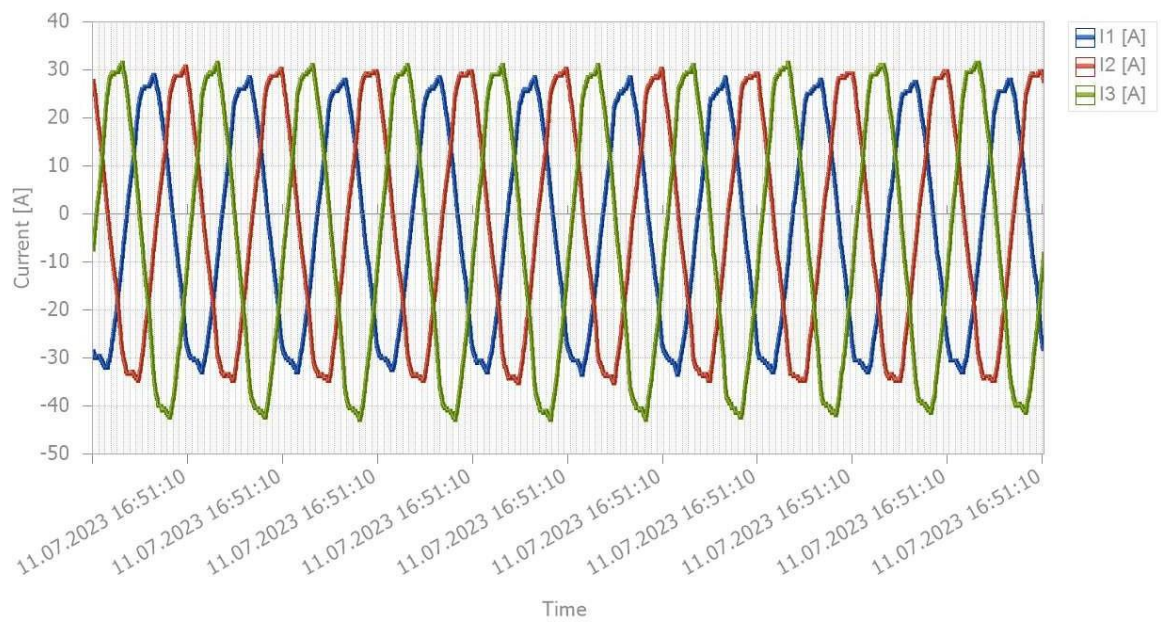


Item	Value	Angle
UR	223,26 V	0,00 °
US	224,95 V	-120,64 °
UT	226,57 V	120,11 °
IR	21,31 A	-50,56 °
IS	22,84 A	-166,09 °
IT	25,75 A	70,02 °

## Voltage Waveform



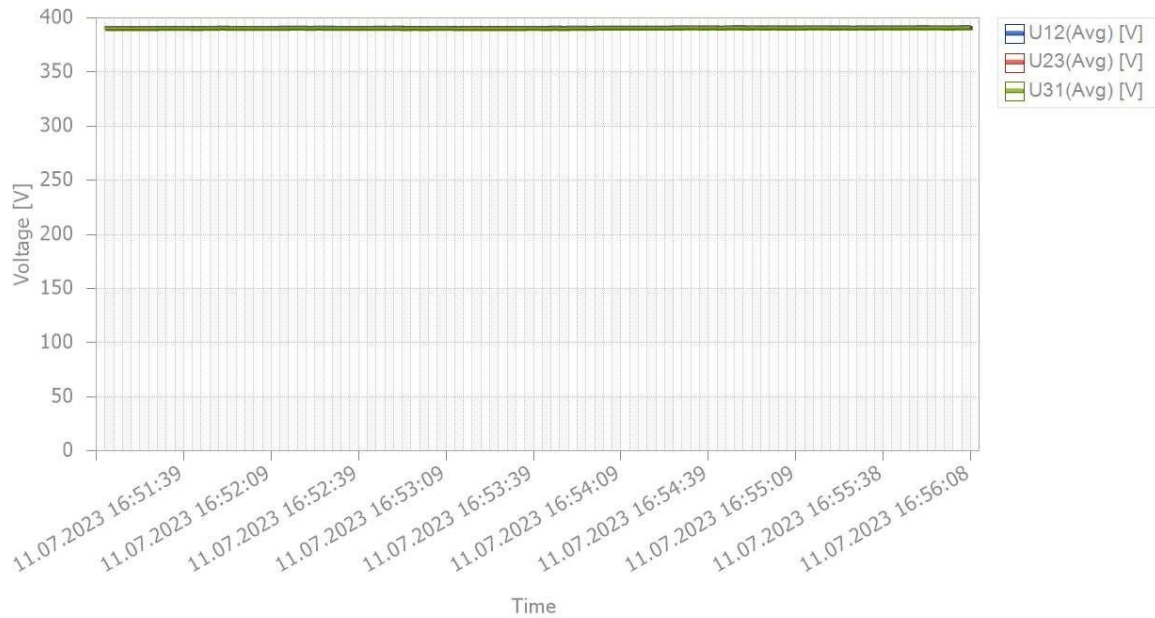
## Current Waveform



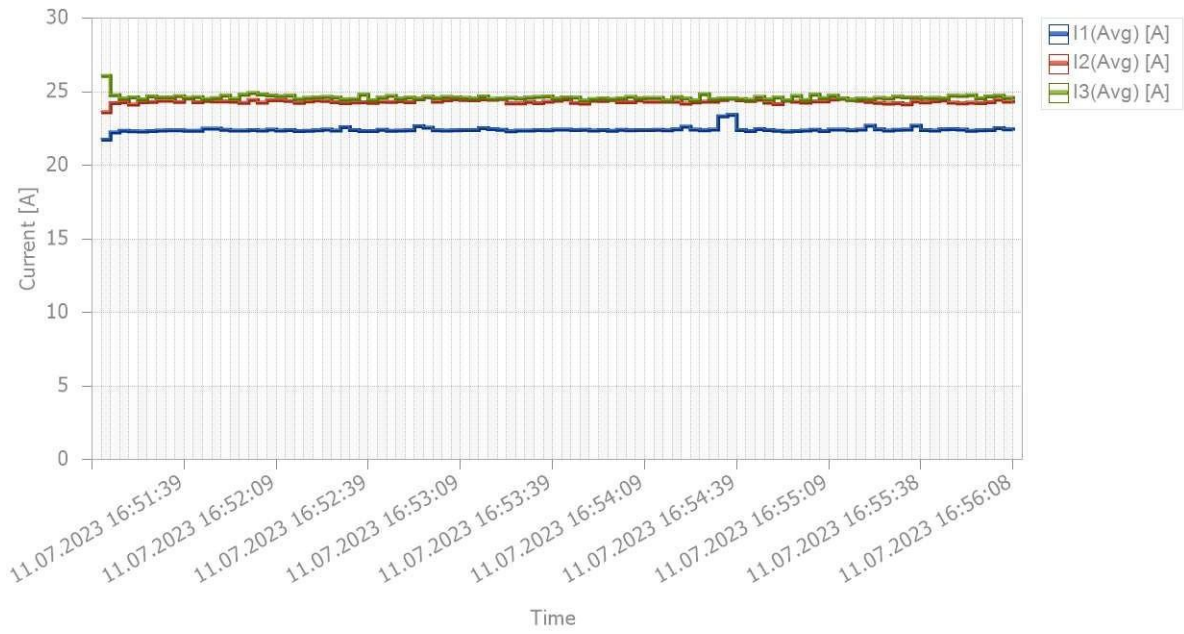
Item	Min	Time	Max	Time	Avg
UR [V]	223,60	11.07.2023 16:51:21	224,06	11.07.2023 16:55:47	223,83
US [V]	225,30	11.07.2023 16:51:42	225,79	11.07.2023 16:54:33	225,53
UT [V]	226,84	11.07.2023 16:53:12	227,29	11.07.2023 16:56:05	227,07
UR-S [V]	390,73	11.07.2023 16:51:42	391,54	11.07.2023 16:56:08	391,14
US-T [V]	390,10	11.07.2023 16:53:12	390,88	11.07.2023 16:56:05	390,47
UT-R [V]	389,57	11.07.2023 16:53:27	390,38	11.07.2023 16:55:47	389,99
IR [A]	21,75	11.07.2023 16:51:12	23,43	11.07.2023 16:54:36	22,42
IS [A]	23,60	11.07.2023 16:51:12	24,64	11.07.2023 16:52:57	24,33
IT [A]	24,40	11.07.2023 16:54:24	26,07	11.07.2023 16:51:12	24,61
IN [A]	8,57	11.07.2023 16:51:45	13,98	11.07.2023 16:54:36	10,51
P [kW]	10,20	11.07.2023 16:52:39	10,55	11.07.2023 16:51:12	10,26
Sv [kVA]	16,00	11.07.2023 16:53:48	16,34	11.07.2023 16:54:36	16,09
N [kvar]	12,14	11.07.2023 16:51:12	12,69	11.07.2023 16:54:36	12,39
PF	0,04	11.07.2023 16:52:57	0,61	11.07.2023 16:51:12	0,08
f [Hz]	50,00	11.07.2023 16:51:42	50,08	11.07.2023 16:54:54	50,04

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

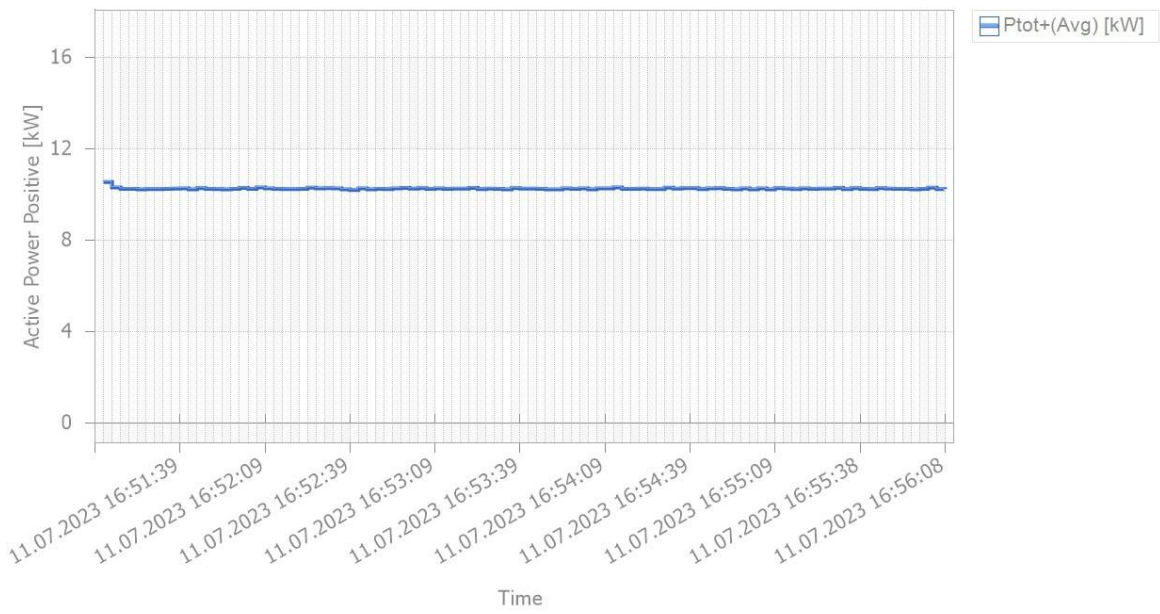
### Voltage Time Plot



### Current Time Plot

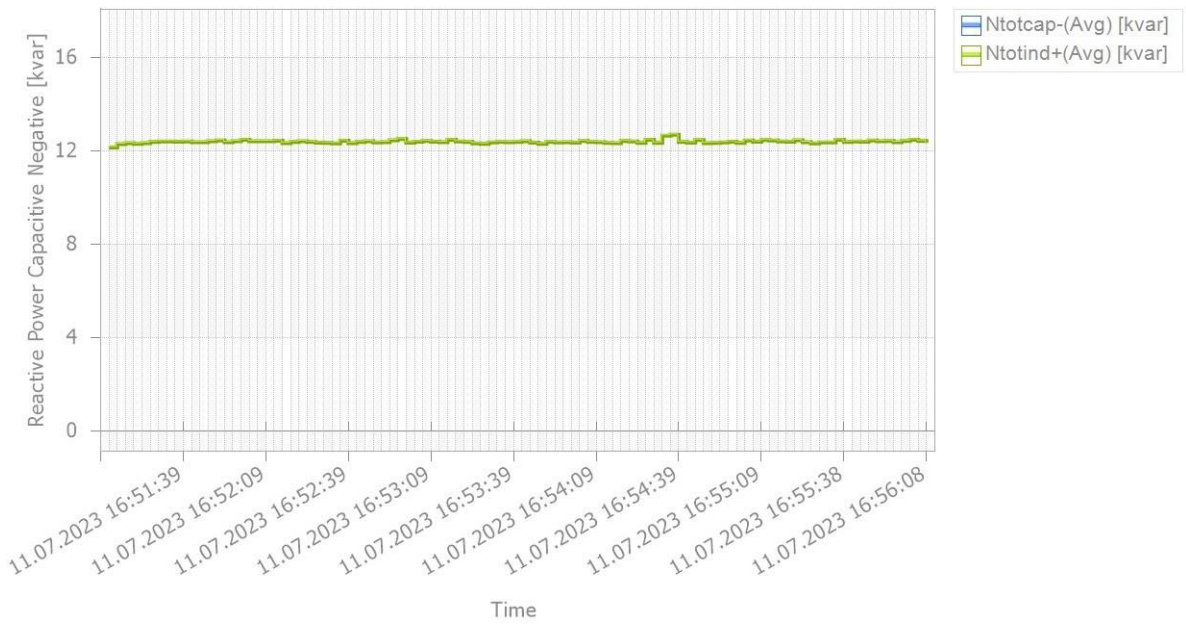


### Active Power Time Plot

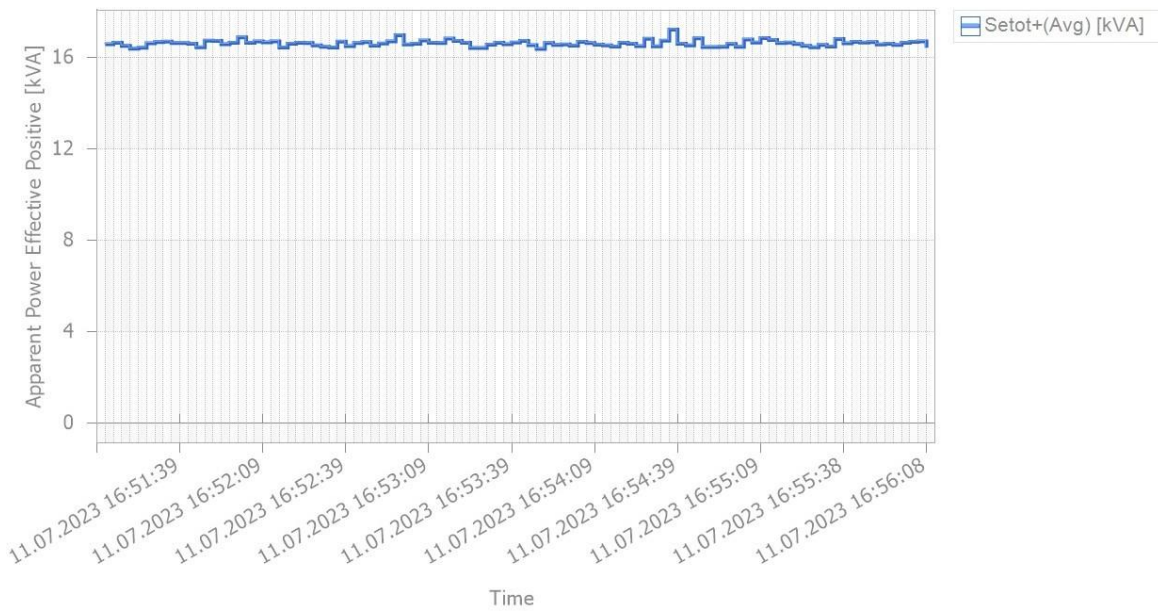




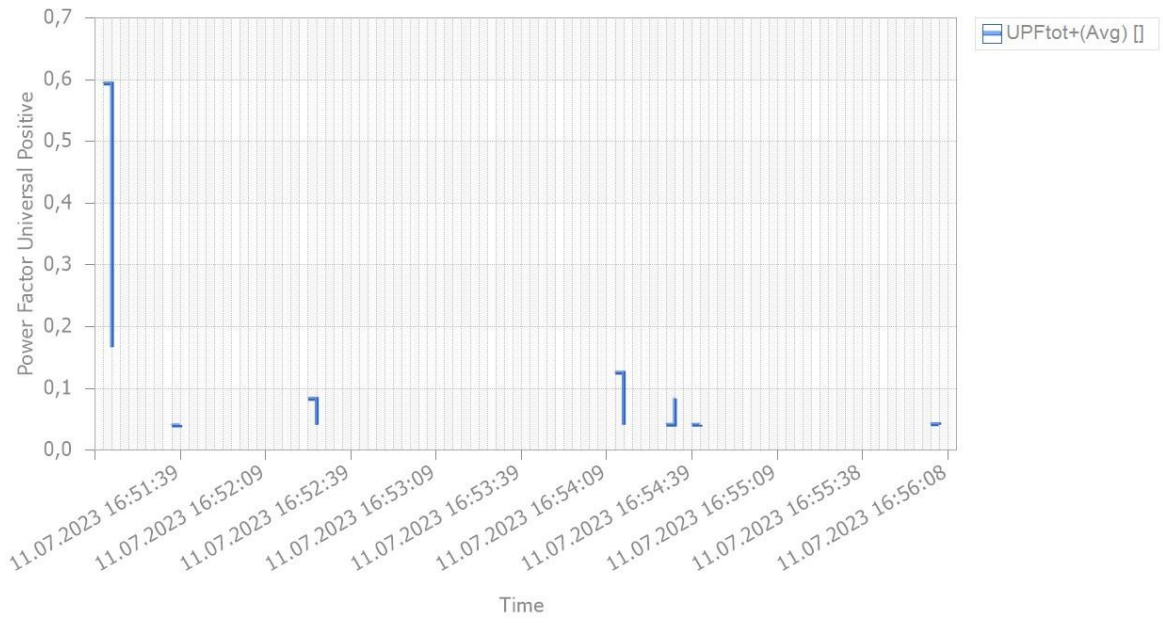
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



## 8 Adet Kule Chiller Sirkülasyon Pompası Güç Ölçüm Raporu

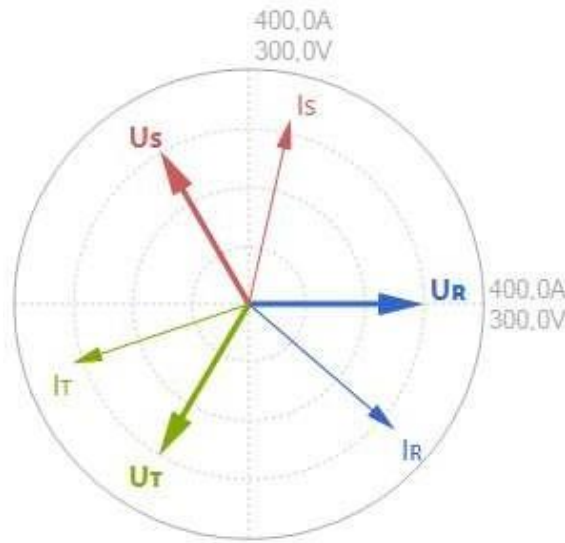
8 Adet Kule Chiller Sirkülasyon Pompasından 3 tanesi çalışıyor.

### Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	393,03	392,15	391,51

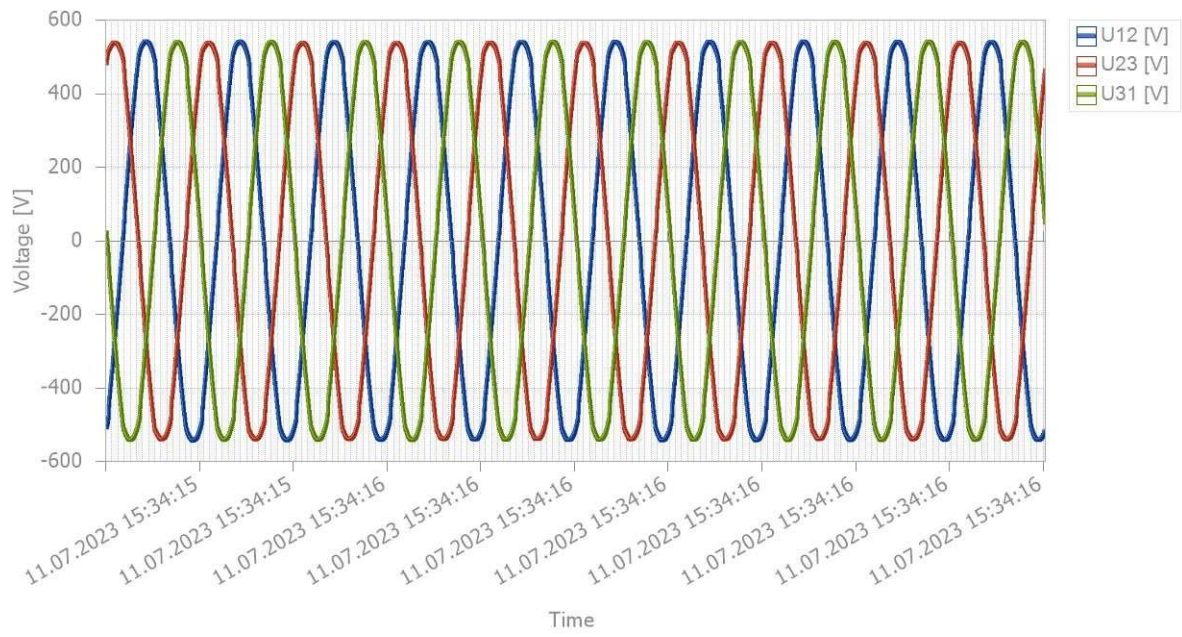
Item	R	S	T	N	Tot
Current [A]	331,62	326,86	320,16	27,40	
Load Factor [%]	99,71	98,28	96,27	8,24	
Active Power [kW]					165,67
Apparent Power [kVA]					221,91
Reactive Power [kvar]					147,91
Power Factor [%]					74,79
Frequency [Hz]					50,00

### Vector Diagram

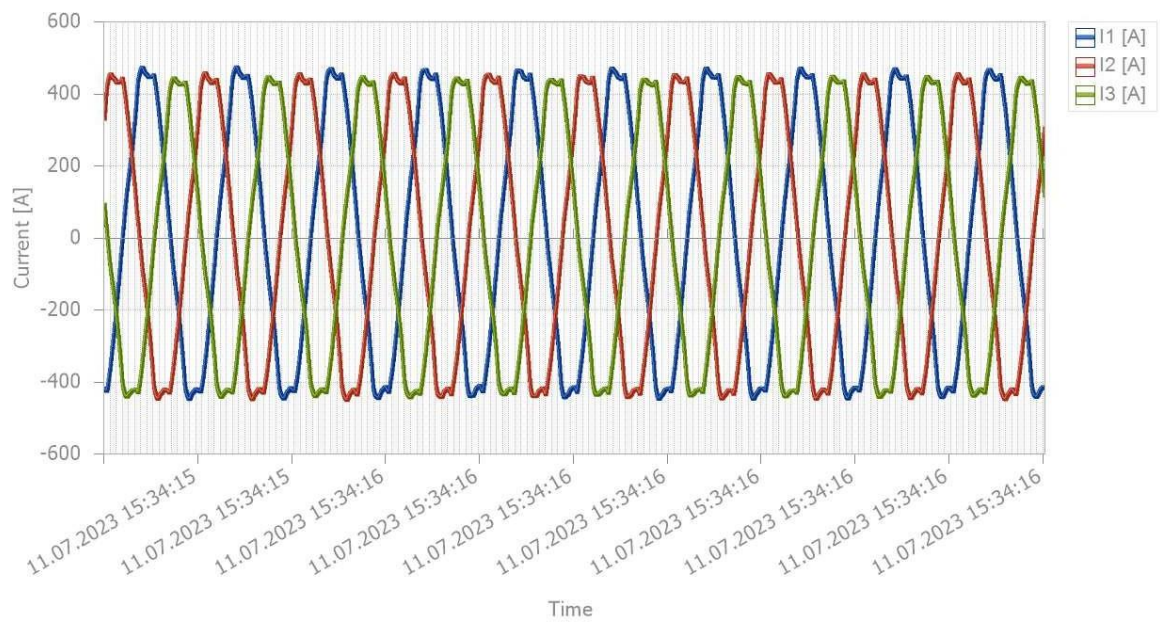


Item	Value	Angle
UR	223,72 V	0,00 °
US	227,04 V	120,07 °
UT	225,56 V	-120,70 °
IR	328,53 A	-40,68 °
IS	323,12 A	77,35 °
IT	318,10 A	-161,47 °

## Voltage Waveform



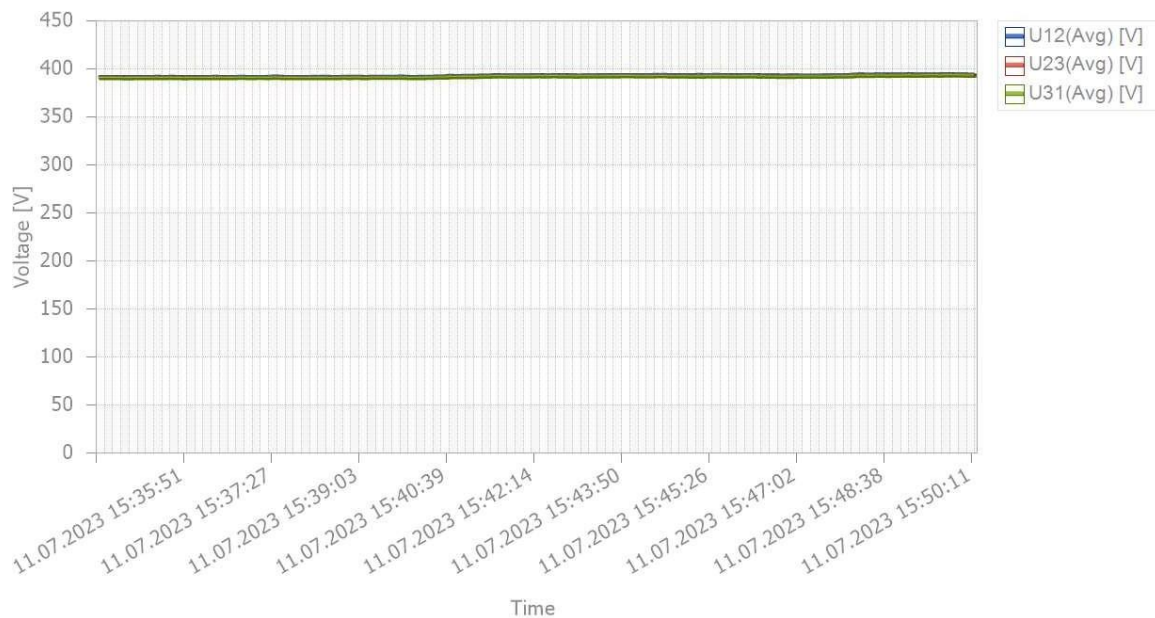
## Current Waveform



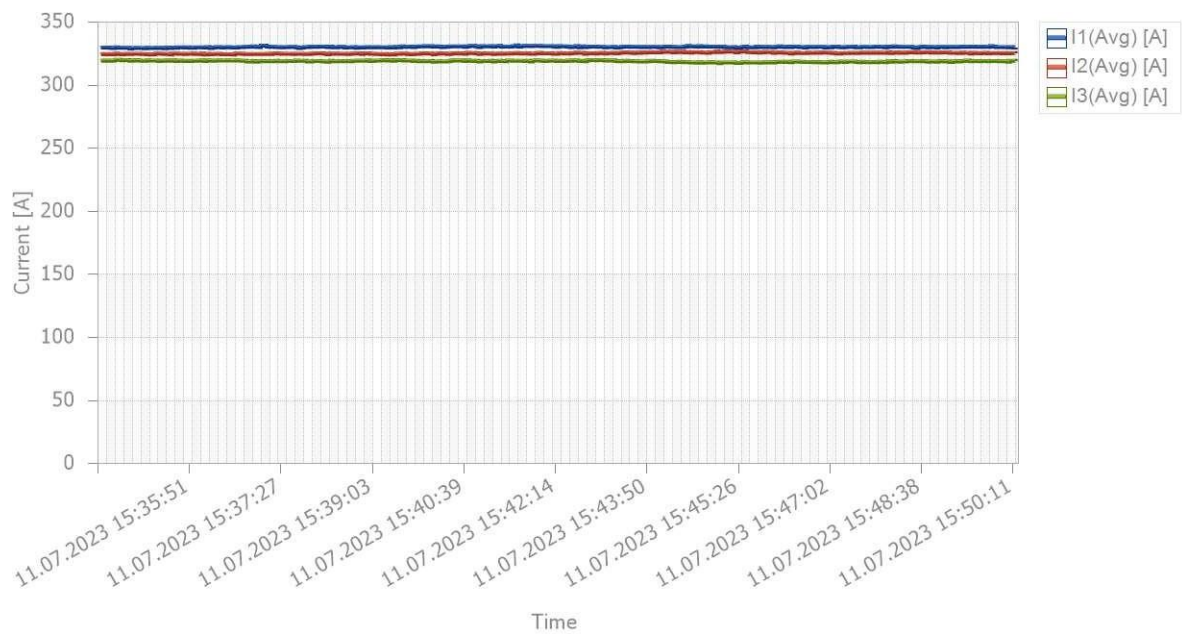
Item	Min	Time	Max	Time	Avg
U <sub>R</sub> [V]	223,96	11.07.2023 15:34:45	225,75	11.07.2023 15:49:50	224,77
U <sub>S</sub> [V]	227,26	11.07.2023 15:36:06	229,04	11.07.2023 15:49:05	228,07
U <sub>T</sub> [V]	225,82	11.07.2023 15:35:51	227,53	11.07.2023 15:49:50	226,54
U <sub>R-S</sub> [V]	391,58	11.07.2023 15:34:45	394,70	11.07.2023 15:49:50	393,03
U <sub>S-T</sub> [V]	390,85	11.07.2023 15:35:57	393,81	11.07.2023 15:49:50	392,15
U <sub>T-R</sub> [V]	390,18	11.07.2023 15:35:51	393,24	11.07.2023 15:49:50	391,51
I <sub>R</sub> [A]	329,18	11.07.2023 15:34:48	331,62	11.07.2023 15:41:32	330,39
I <sub>S</sub> [A]	324,30	11.07.2023 15:35:09	326,86	11.07.2023 15:45:02	325,41
I <sub>T</sub> [A]	317,52	11.07.2023 15:45:05	320,16	11.07.2023 15:34:33	319,09
I <sub>N</sub> [A]	18,55	11.07.2023 15:34:42	27,40	11.07.2023 15:34:18	20,92
P [kW]	164,60	11.07.2023 15:34:48	165,67	11.07.2023 15:41:56	165,08
S <sub>v</sub> [kVA]	219,68	11.07.2023 15:36:06	221,91	11.07.2023 15:49:50	220,74
N [kvar]	145,43	11.07.2023 15:36:06	147,91	11.07.2023 15:49:41	146,54
PF	0,75	11.07.2023 15:49:41	0,75	11.07.2023 15:39:57	0,75
f [Hz]	49,96	11.07.2023 15:35:51	50,04	11.07.2023 15:43:29	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

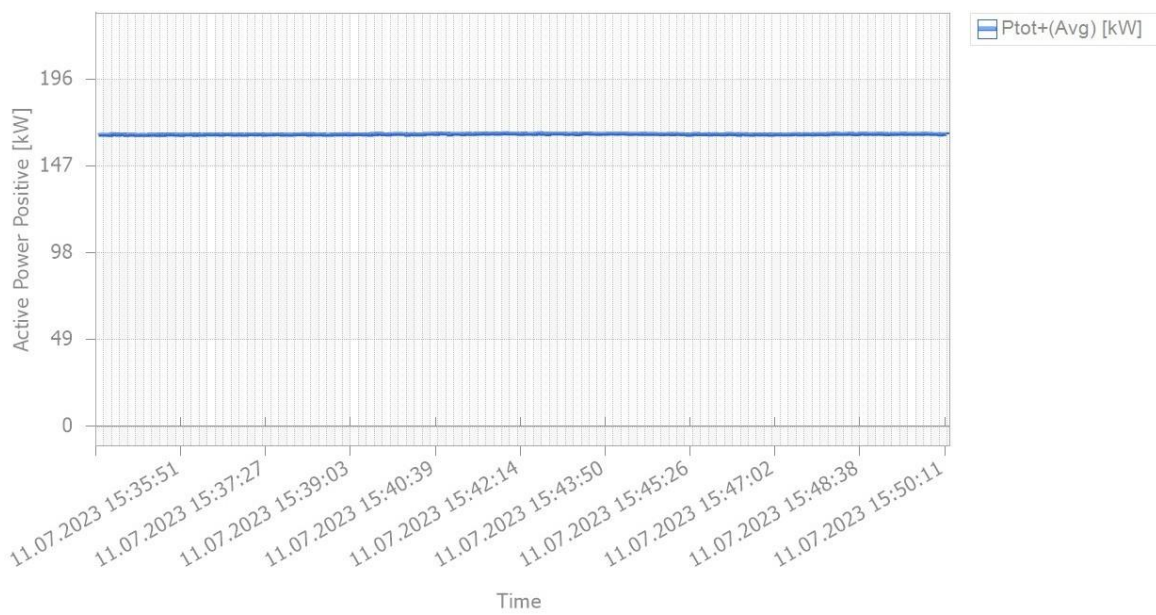
### Voltage Time Plot



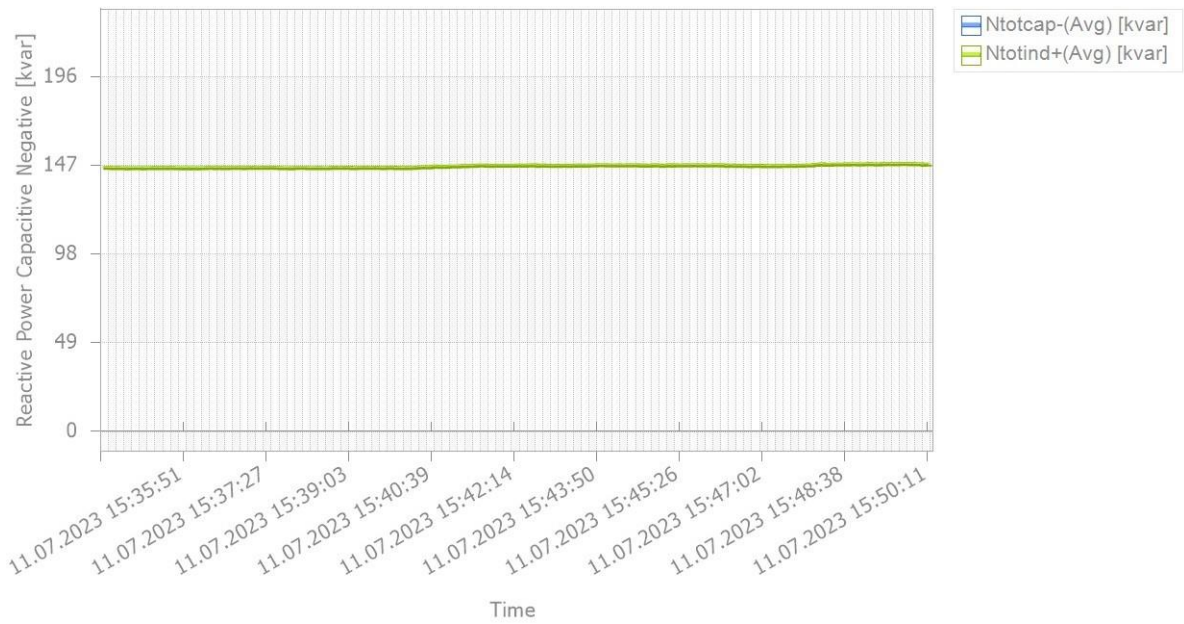
## Current Time Plot



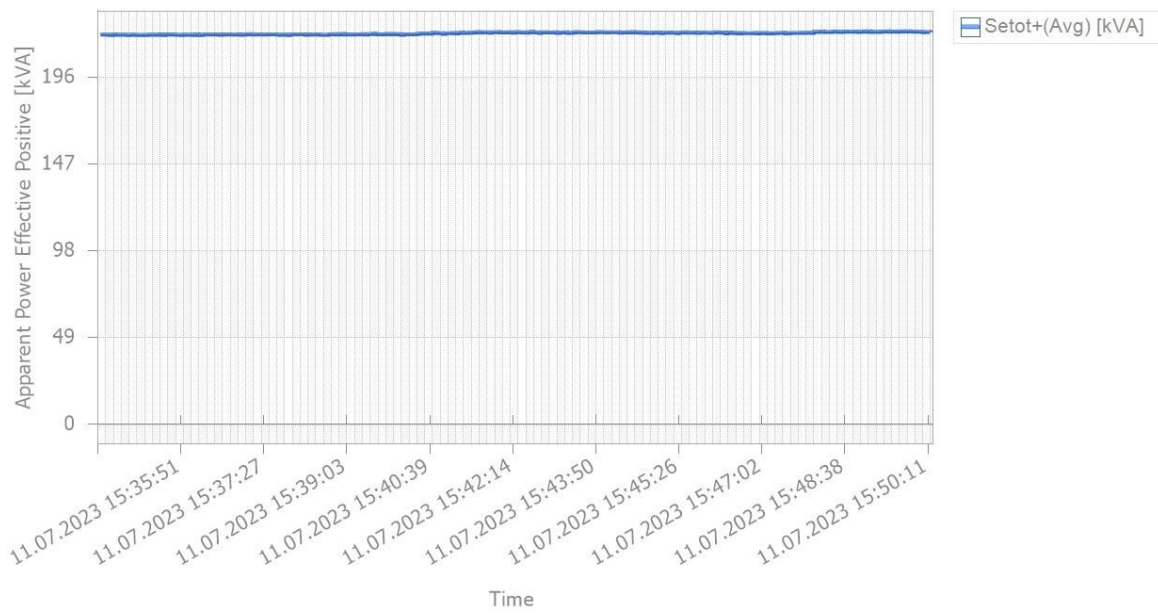
## Active Power Time Plot



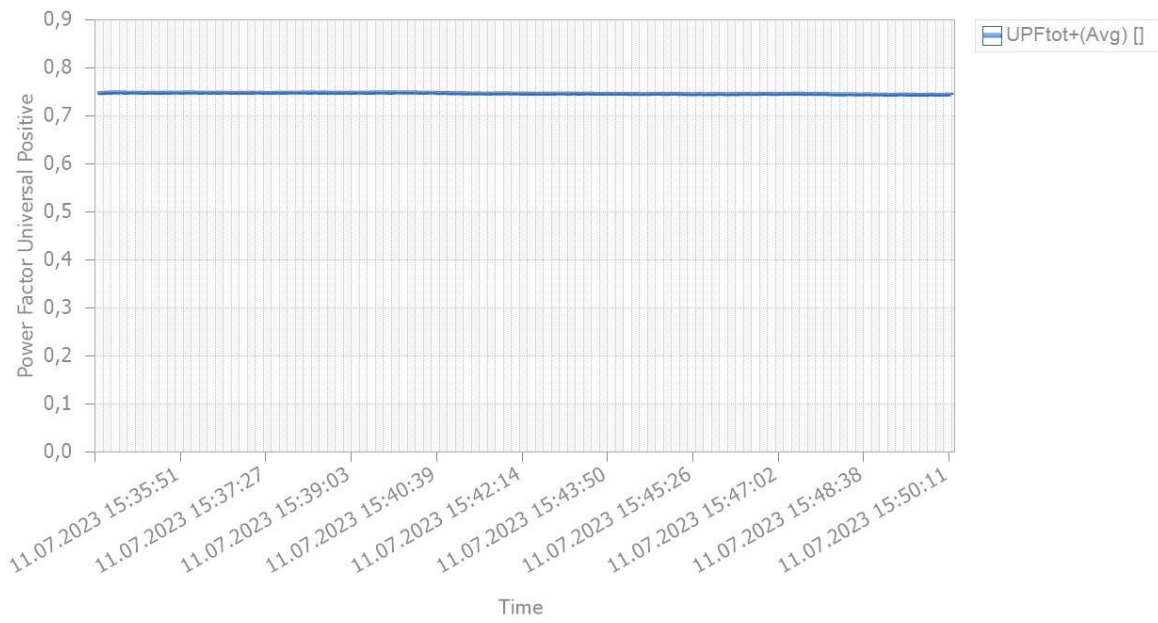
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot





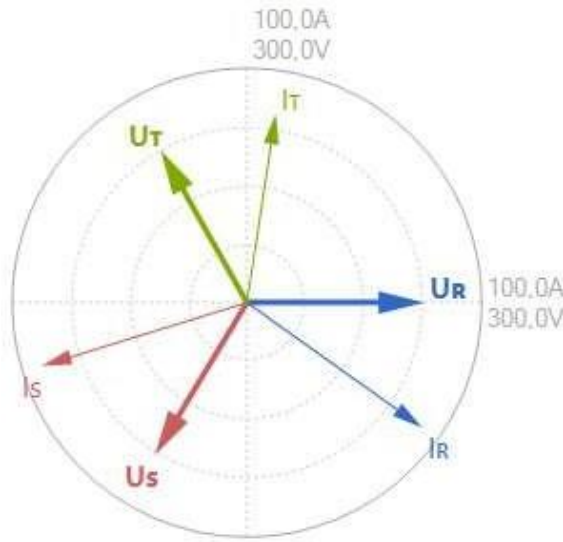
# A ve A1 Blok Sirkülasyon Pompası Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	397,02	391,51	389,22

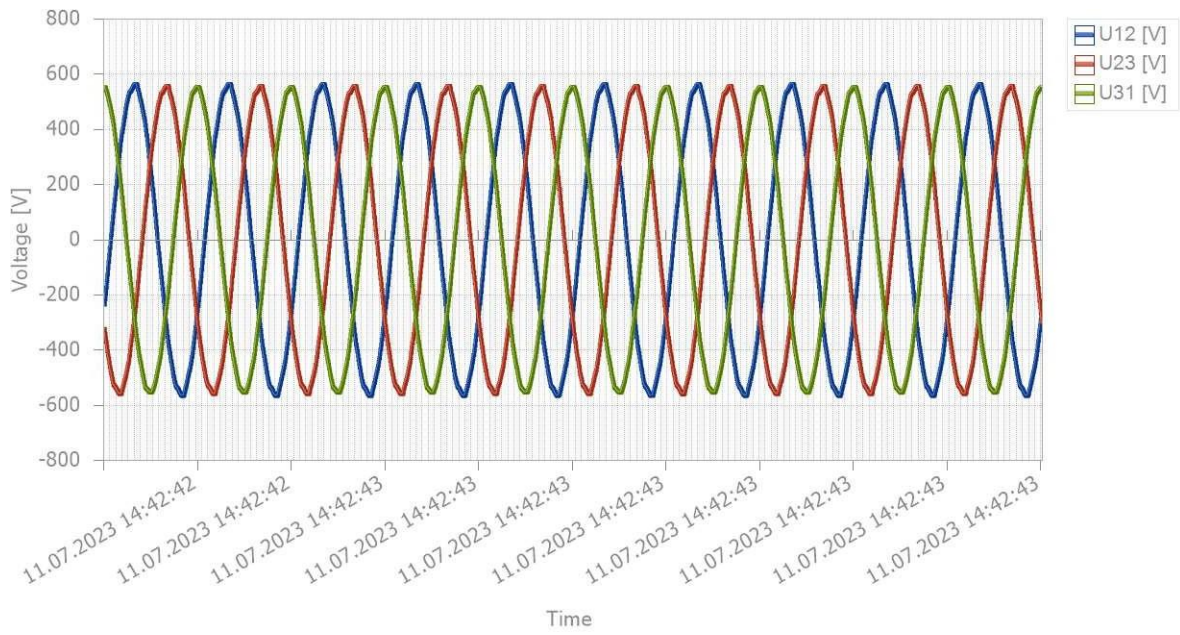
Item	R	S	T	N	Tot
Current [A]	96,95	97,66	87,40	13,44	
Load Factor [%]	98,67	99,39	88,95	13,68	
Active Power [kW]					47,40
Apparent Power [kVA]					63,74
Reactive Power [kvar]					42,76
Power Factor [%]					74,34
Frequency [Hz]					50,03

## Vector Diagram

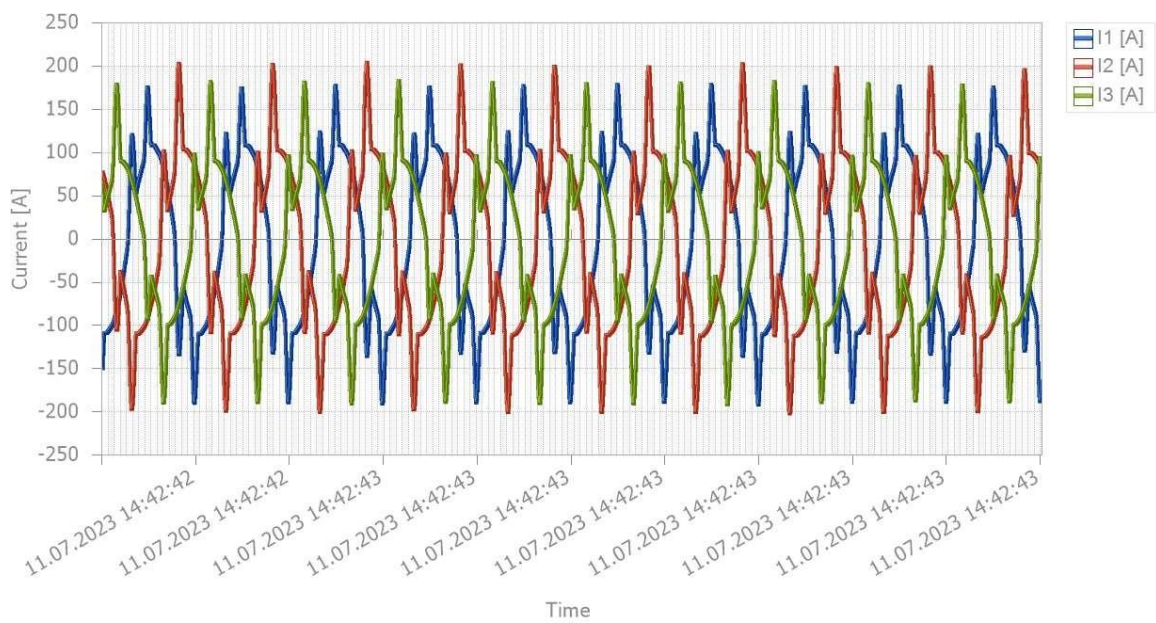


Item	Value	Angle
UR	226,46 V	0,00 °
US	228,38 V	-121,10 °
UT	224,70 V	119,46 °
IR	91,72 A	-35,52 °
IS	91,60 A	-162,83 °
IT	81,49 A	81,32 °

## Voltage Waveform



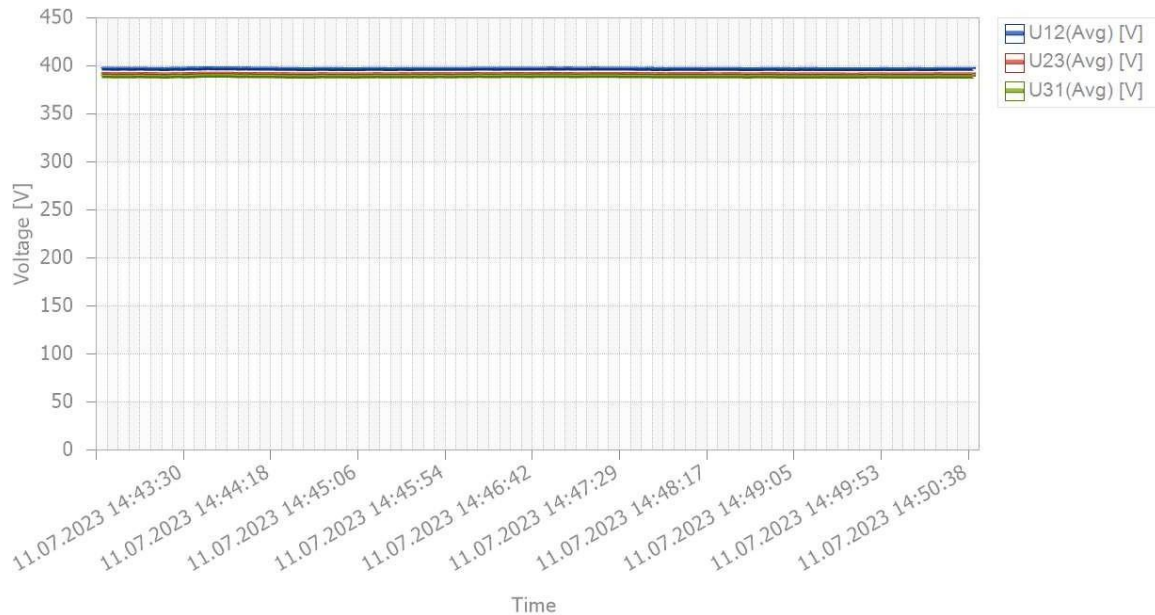
## Current Waveform



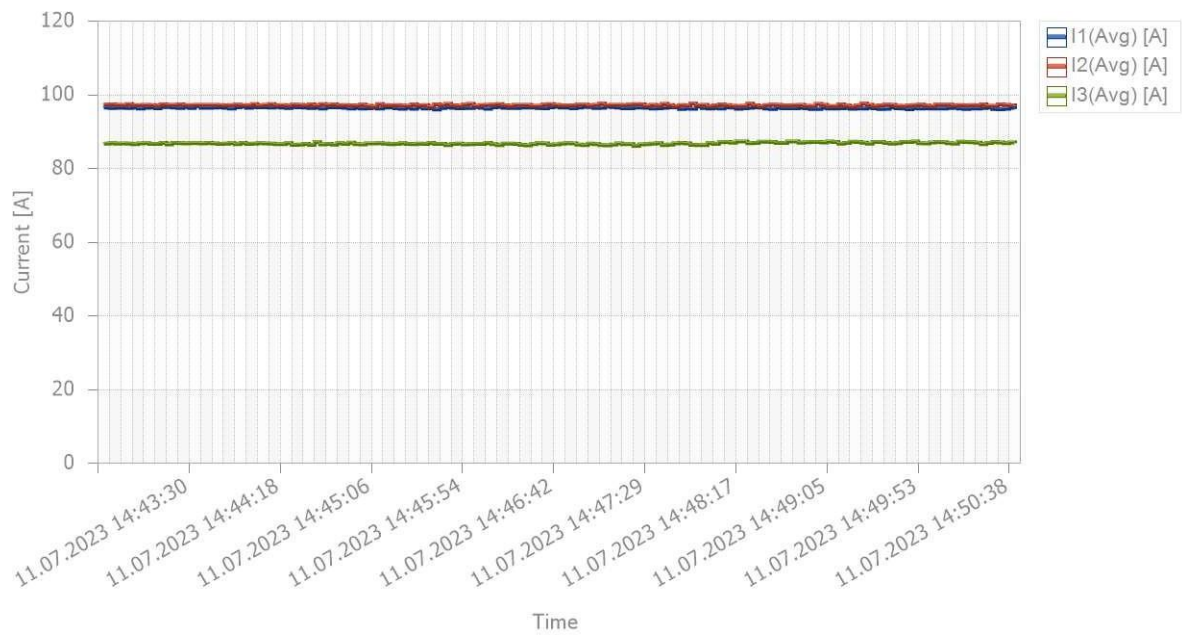
Item	Min	Time	Max	Time	Avg
U <sub>R</sub> [V]	226,27	11.07.2023 14:49:38	226,93	11.07.2023 14:43:42	226,55
U <sub>S</sub> [V]	228,27	11.07.2023 14:50:41	228,91	11.07.2023 14:43:42	228,53
U <sub>T</sub> [V]	224,61	11.07.2023 14:49:35	225,26	11.07.2023 14:46:51	224,89
U <sub>R-S</sub> [V]	396,63	11.07.2023 14:49:38	397,63	11.07.2023 14:43:42	397,02
U <sub>S-T</sub> [V]	391,09	11.07.2023 14:49:35	392,14	11.07.2023 14:43:42	391,51
U <sub>T-R</sub> [V]	388,76	11.07.2023 14:49:32	389,86	11.07.2023 14:43:42	389,22
I <sub>R</sub> [A]	96,07	11.07.2023 14:45:39	96,95	11.07.2023 14:43:33	96,48
I <sub>S</sub> [A]	96,79	11.07.2023 14:45:36	97,66	11.07.2023 14:47:53	97,24
I <sub>T</sub> [A]	86,22	11.07.2023 14:47:24	87,40	11.07.2023 14:48:17	86,85
I <sub>N</sub> [A]	8,27	11.07.2023 14:48:53	13,44	11.07.2023 14:43:33	10,62
P [kW]	47,15	11.07.2023 14:50:35	47,40	11.07.2023 14:43:15	47,25
S <sub>v</sub> [kVA]	63,43	11.07.2023 14:50:41	63,74	11.07.2023 14:43:33	63,56
N [kvar]	42,38	11.07.2023 14:45:06	42,76	11.07.2023 14:43:33	42,51
PF	0,74	11.07.2023 14:43:33	0,74	11.07.2023 14:43:15	0,74
f [Hz]	50,01	11.07.2023 14:49:38	50,04	11.07.2023 14:48:50	50,03

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

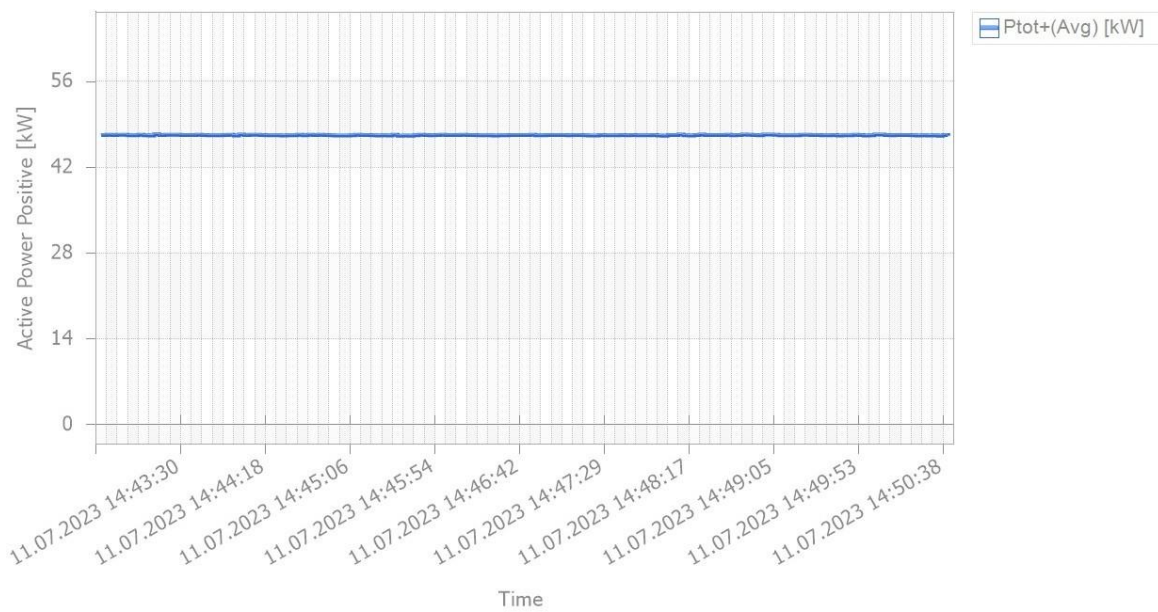
### Voltage Time Plot



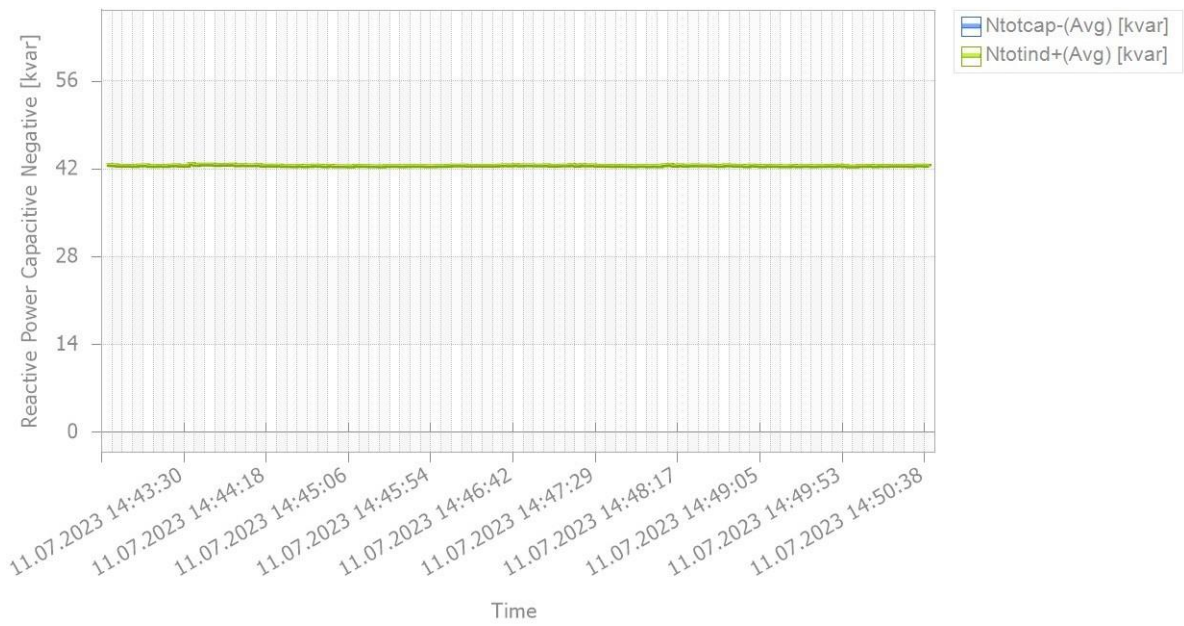
## Current Time Plot



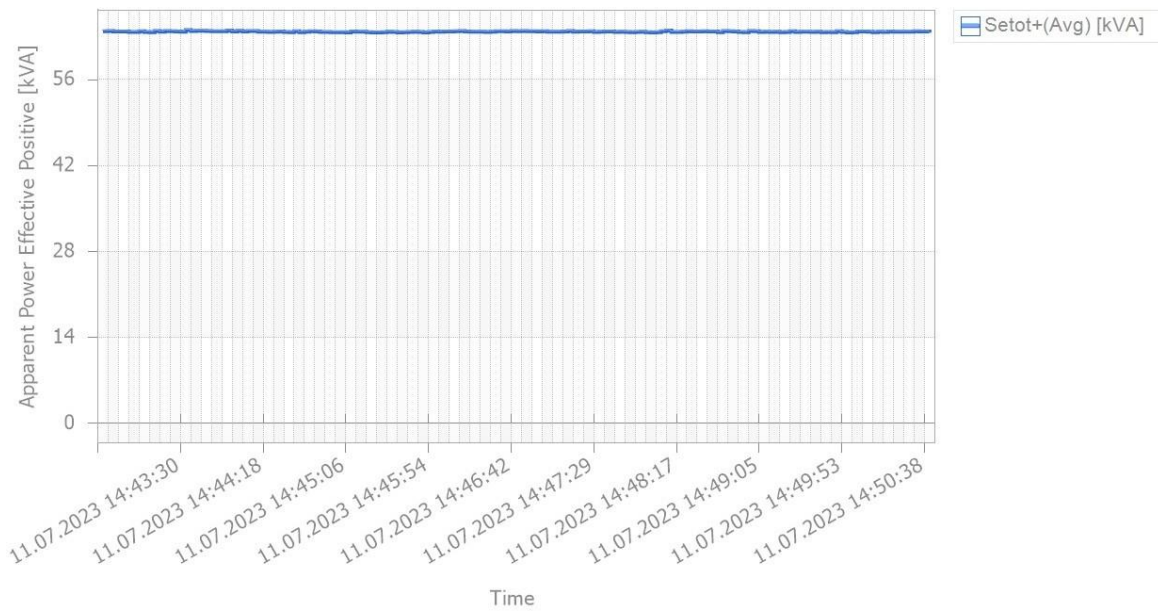
## Active Power Time Plot



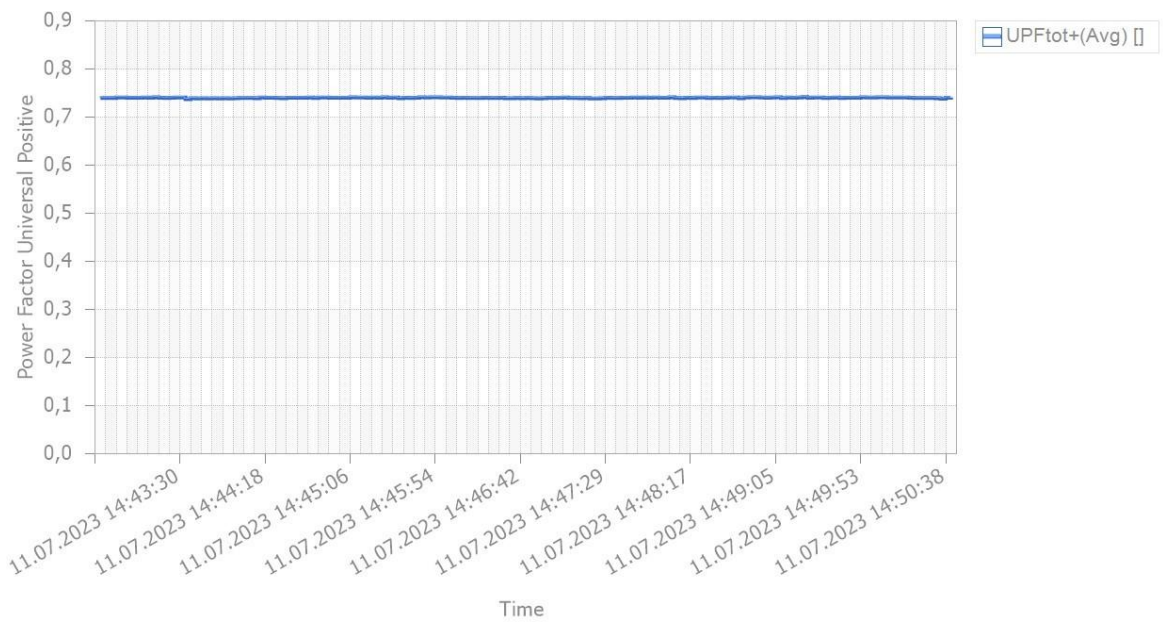
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



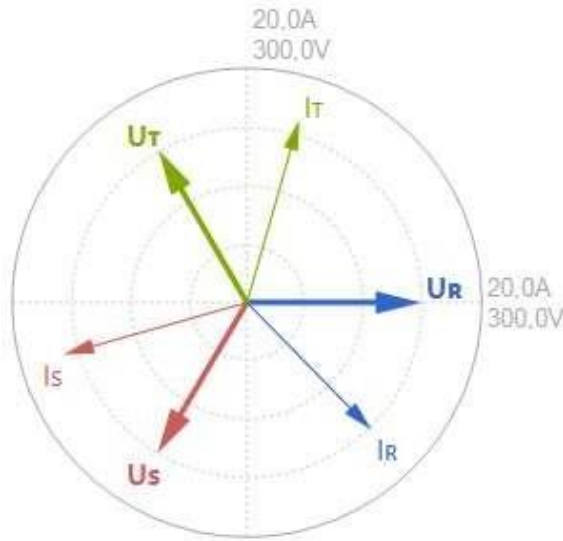
# A2 Zon1 Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	390,06	389,40	388,83

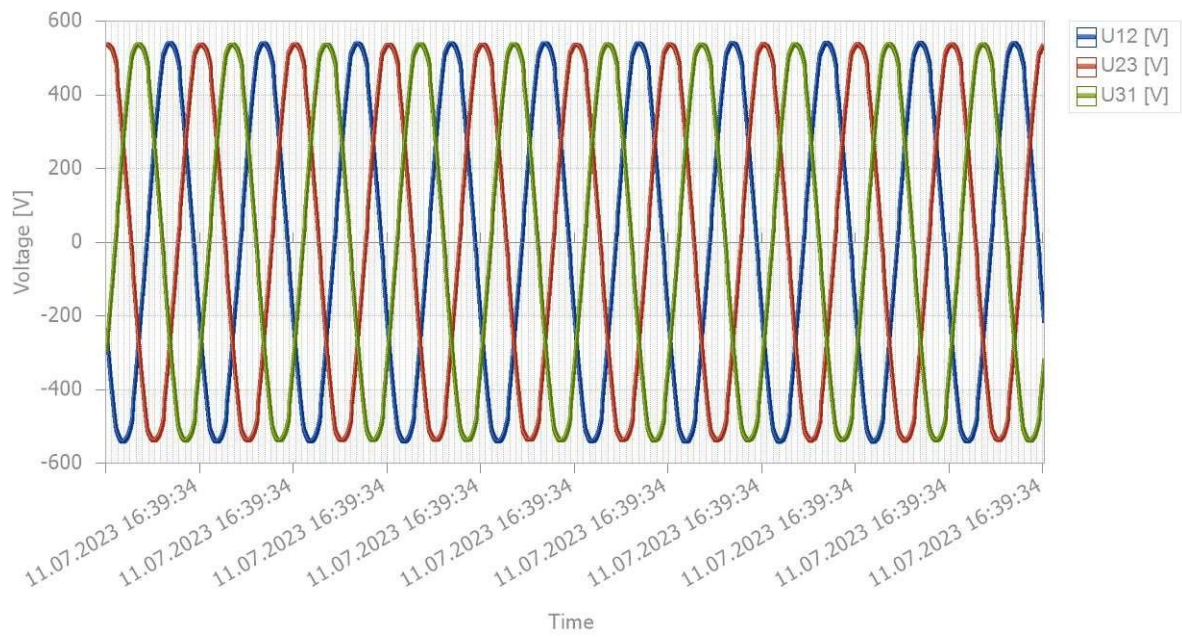
Item	R	S	T	N	Tot
Current [A]	16,84	17,43	17,48	13,66	
Load Factor [%]	73,71	76,28	76,52	59,79	
Active Power [kW]					7,74
Apparent Power [kVA]					11,47
Reactive Power [kvar]					8,49
Power Factor [%]					NaN
Frequency [Hz]					50,01

## Vector Diagram

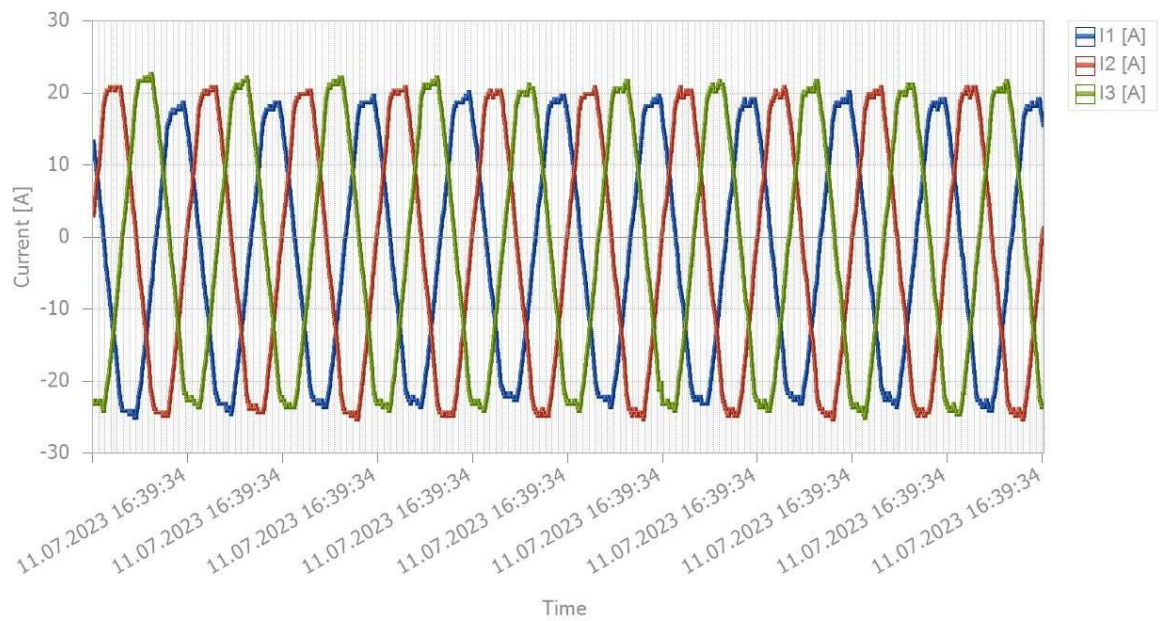


Item	Value	Angle
UR	222,76 V	0,00 °
US	224,50 V	-120,67 °
UT	225,98 V	120,08 °
IR	15,18 A	-45,63 °
IS	16,24 A	-164,19 °
IT	16,21 A	74,04 °

## Voltage Waveform



## Current Waveform

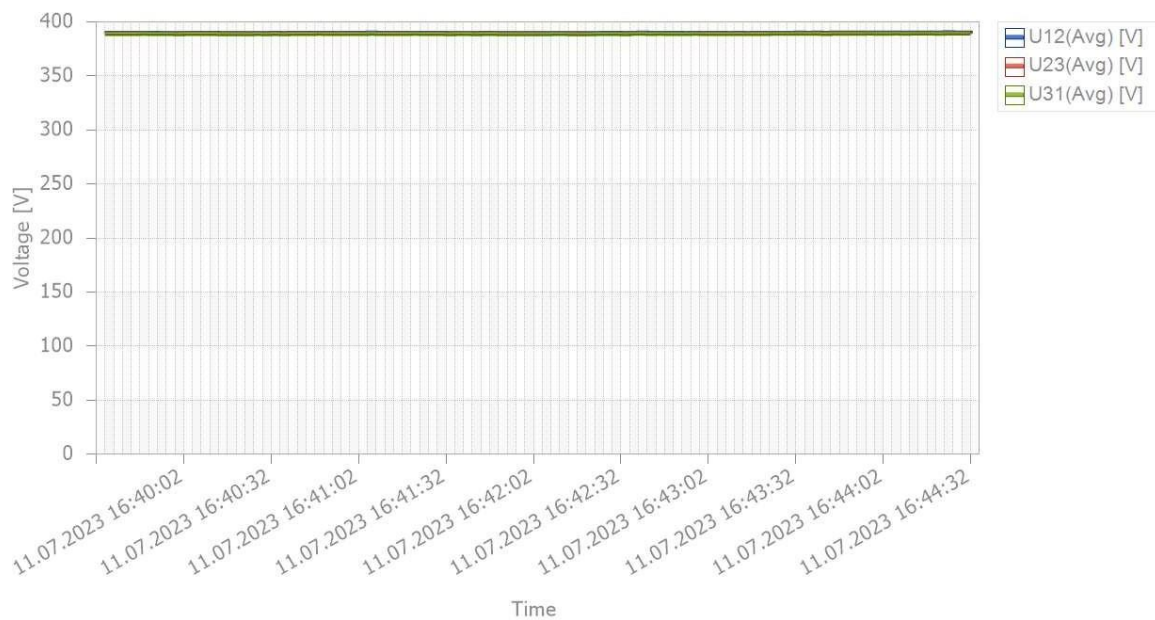




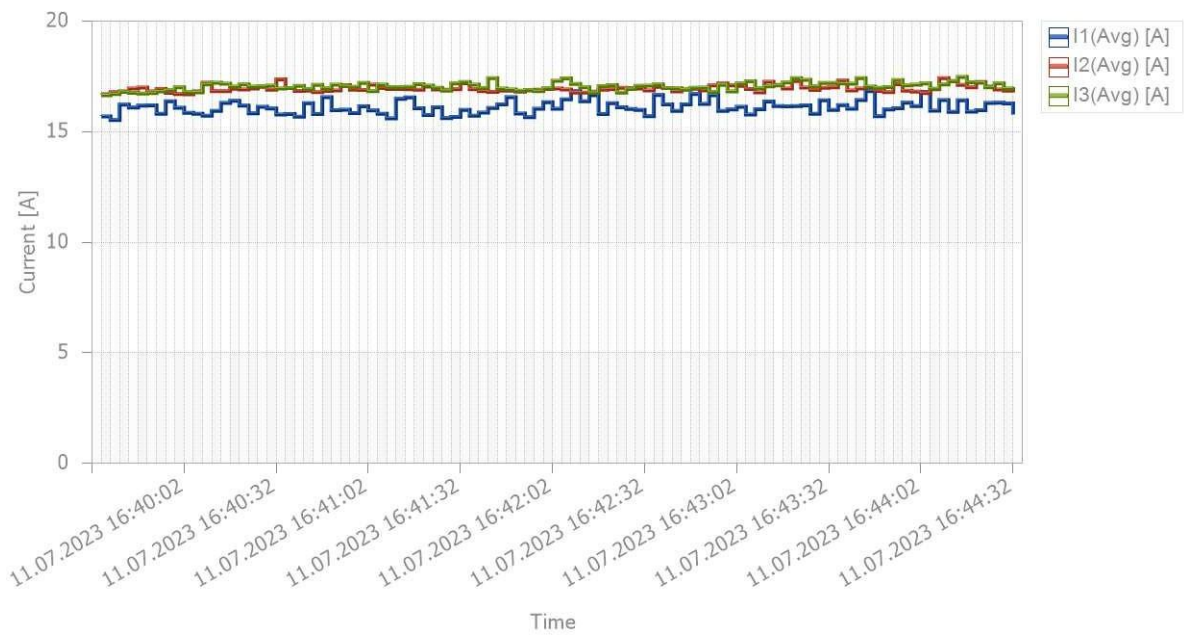
Item	Min	Time	Max	Time	Avg
UR [V]	222,95	11.07.2023 16:42:05	223,43	11.07.2023 16:44:23	223,16
US [V]	224,75	11.07.2023 16:42:17	225,13	11.07.2023 16:44:23	224,92
UT [V]	226,29	11.07.2023 16:42:17	226,68	11.07.2023 16:44:23	226,44
UR-S [V]	389,77	11.07.2023 16:40:29	390,48	11.07.2023 16:44:23	390,06
US-T [V]	389,10	11.07.2023 16:42:17	389,74	11.07.2023 16:44:23	389,40
UT-R [V]	388,53	11.07.2023 16:42:05	389,30	11.07.2023 16:44:23	388,83
IR [A]	15,53	11.07.2023 16:39:39	16,84	11.07.2023 16:43:44	16,11
IS [A]	16,70	11.07.2023 16:40:02	17,43	11.07.2023 16:44:08	16,95
IT [A]	16,65	11.07.2023 16:39:36	17,48	11.07.2023 16:44:14	17,05
IN [A]	5,01	11.07.2023 16:39:39	13,66	11.07.2023 16:44:08	10,11
P [kW]	7,65	11.07.2023 16:39:51	7,74	11.07.2023 16:43:41	7,69
Sv [kVA]	11,02	11.07.2023 16:39:36	11,47	11.07.2023 16:44:14	11,26
N [kvar]	7,90	11.07.2023 16:39:39	8,49	11.07.2023 16:44:08	8,21
PF	NaN	N/A	NaN	N/A	NaN
f [Hz]	49,99	11.07.2023 16:43:56	50,03	11.07.2023 16:40:47	50,01

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

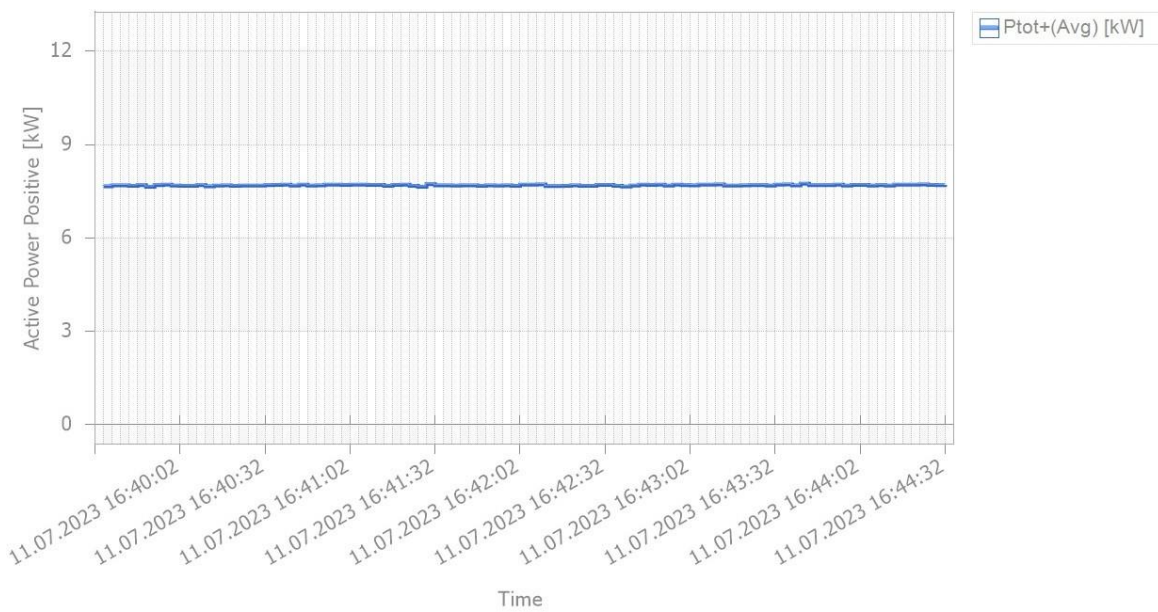
### Voltage Time Plot



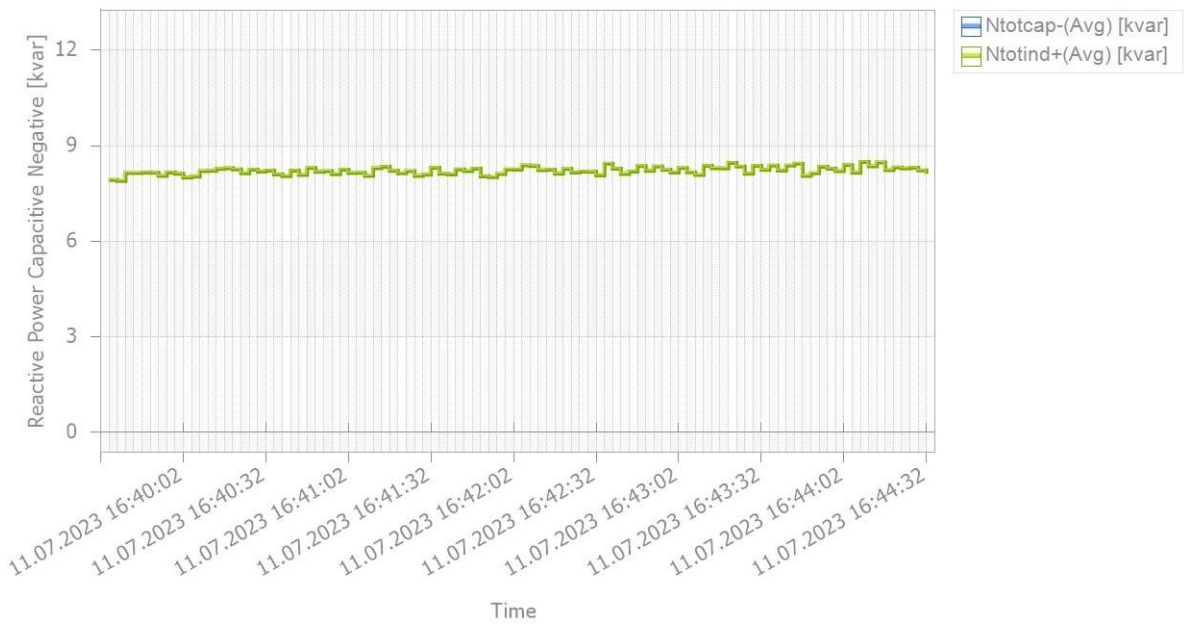
## Current Time Plot



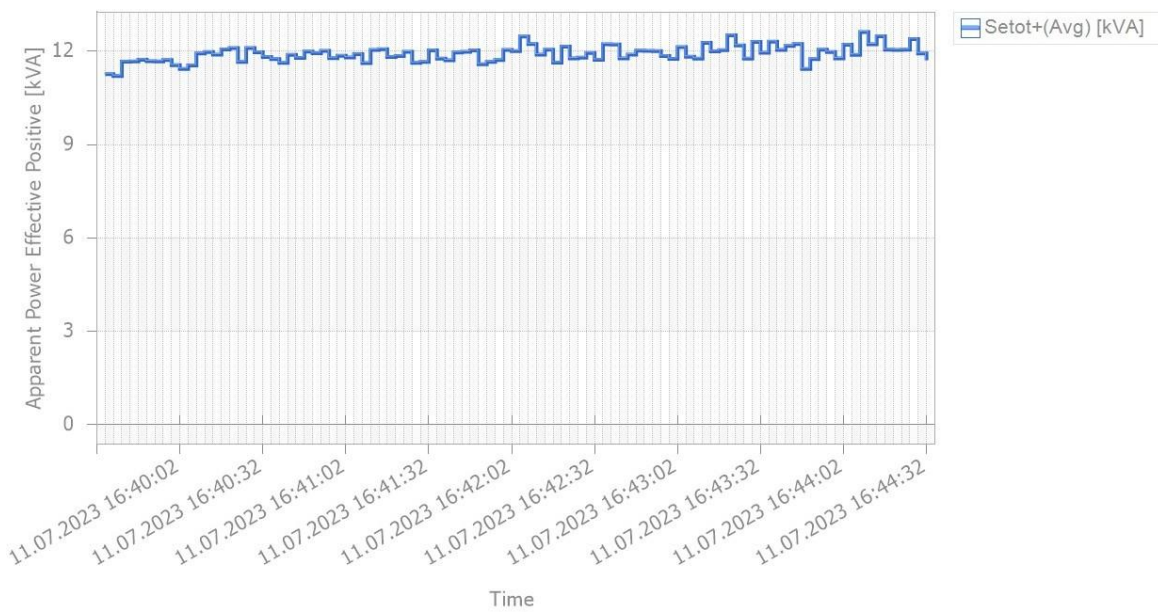
## Active Power Time Plot



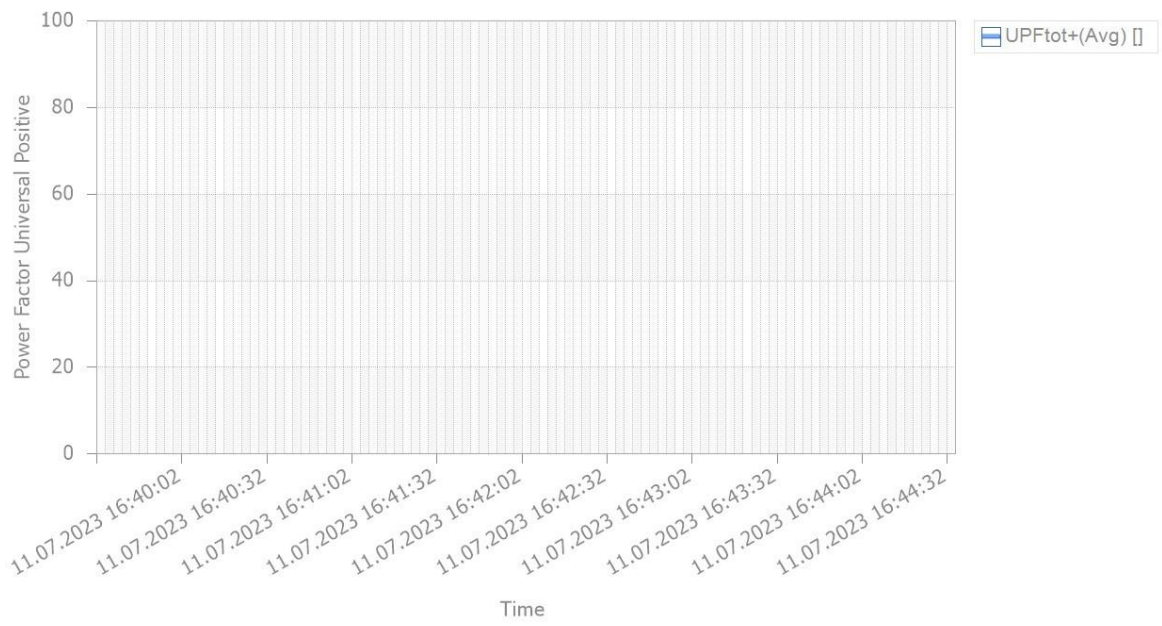
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



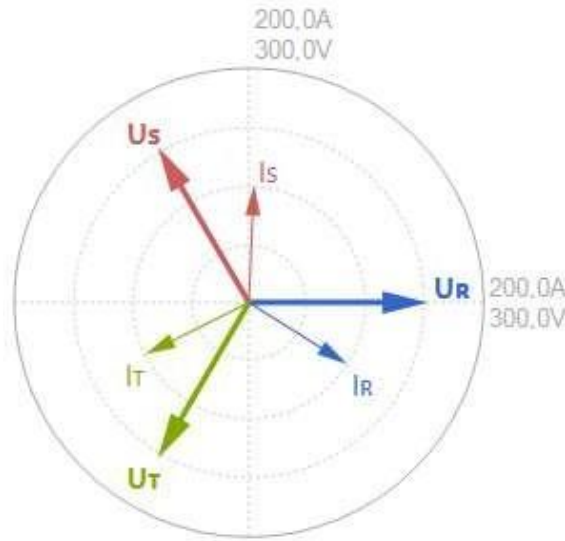
# Bahçe Soğutma Grubu Sirkülasyon Pompası Güç Ölçüm Raporu

## Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	399,92	398,97	398,54

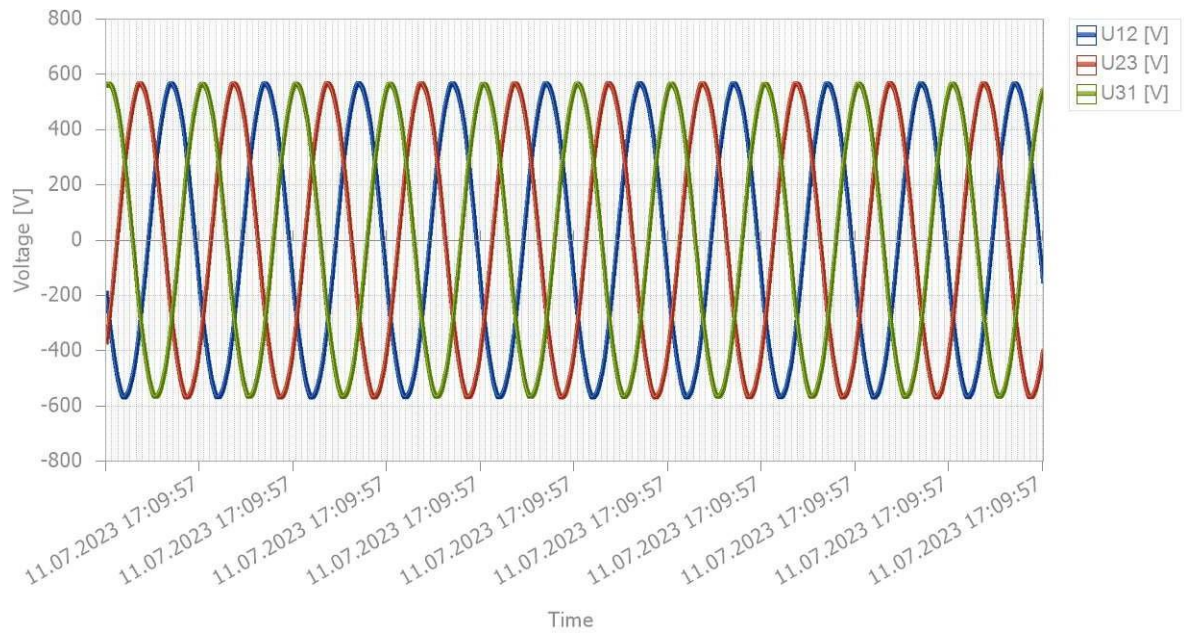
Item	R	S	T	N	Tot
Current [A]	98,87	100,80	98,94	13,51	
Load Factor [%]	96,38	98,27	96,45	13,17	
Active Power [kW]					57,85
Apparent Power [kVA]					68,78
Reactive Power [kvar]					37,25
Power Factor [%]					83,98
Frequency [Hz]					50,00

## Vector Diagram

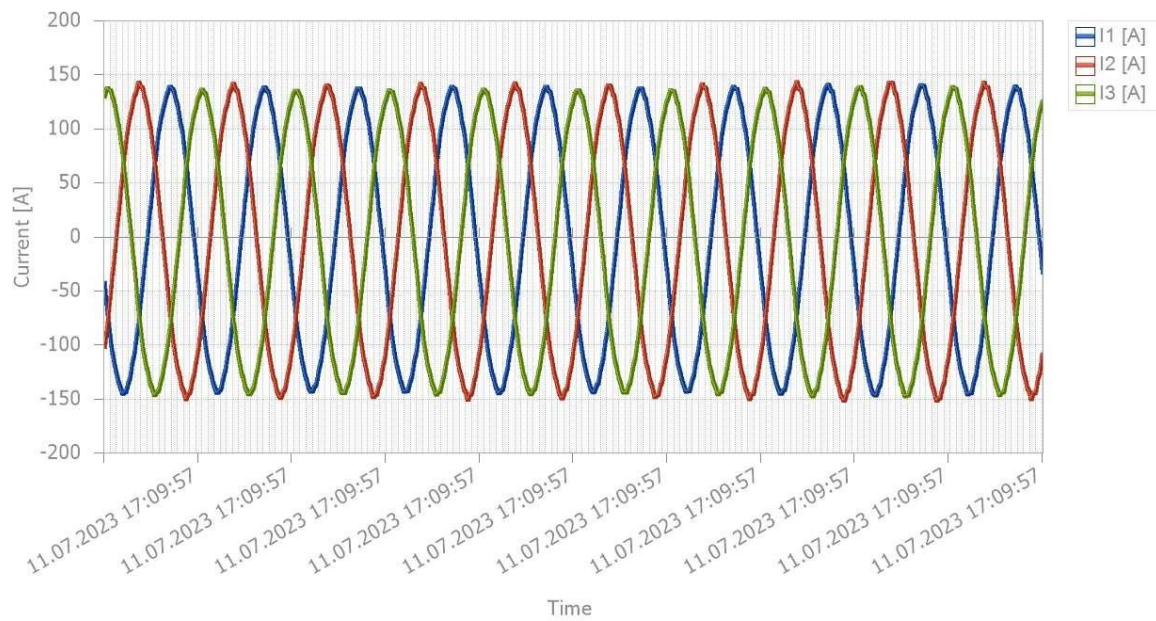


Item	Value	Angle
UR	228,85 V	0,00 °
US	230,75 V	120,33 °
UT	230,86 V	-120,31 °
IR	98,60 A	-32,09 °
IS	100,44 A	87,50 °
IT	98,62 A	-153,42 °

## Voltage Waveform



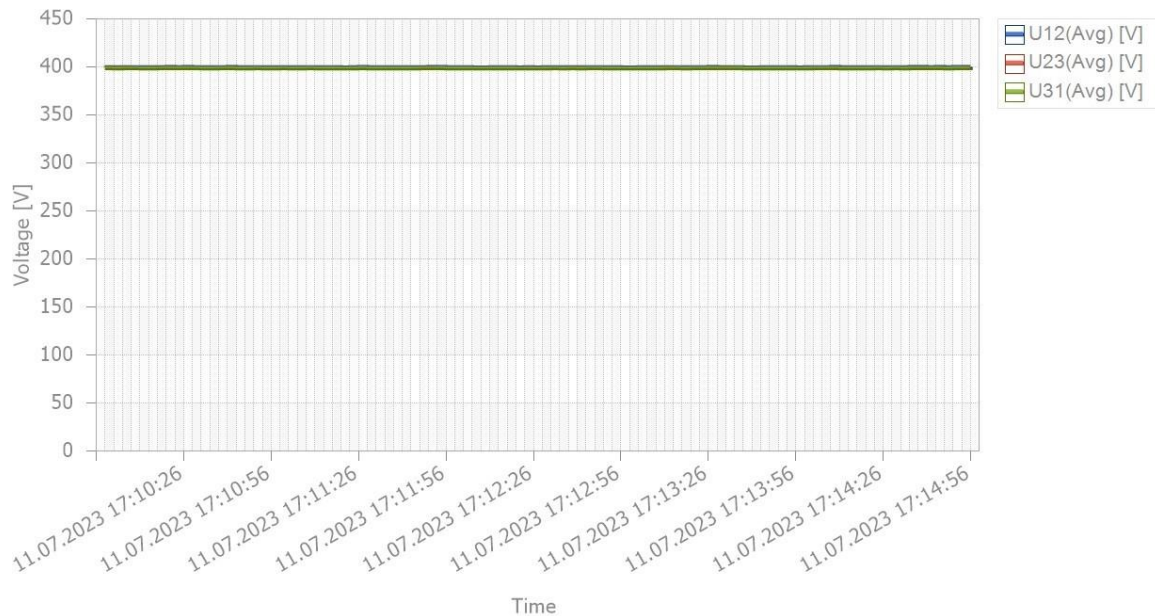
## Current Waveform



Item	Min	Time	Max	Time	Avg
U <sub>R</sub> [V]	229,01	11.07.2023 17:12:26	229,32	11.07.2023 17:14:56	229,17
U <sub>S</sub> [V]	230,92	11.07.2023 17:13:56	231,19	11.07.2023 17:14:56	231,05
U <sub>T</sub> [V]	230,97	11.07.2023 17:13:56	231,22	11.07.2023 17:14:08	231,12
U <sub>R-S</sub> [V]	399,65	11.07.2023 17:12:26	400,19	11.07.2023 17:14:56	399,92
U <sub>S-T</sub> [V]	398,73	11.07.2023 17:13:56	399,18	11.07.2023 17:14:08	398,97
U <sub>T-R</sub> [V]	398,32	11.07.2023 17:13:56	398,76	11.07.2023 17:14:56	398,54
I <sub>R</sub> [A]	97,47	11.07.2023 17:11:14	98,87	11.07.2023 17:11:32	98,13
I <sub>S</sub> [A]	99,26	11.07.2023 17:11:14	100,80	11.07.2023 17:11:32	100,06
I <sub>T</sub> [A]	97,46	11.07.2023 17:11:14	98,94	11.07.2023 17:13:38	98,15
I <sub>N</sub> [A]	9,57	11.07.2023 17:12:29	13,51	11.07.2023 17:10:26	11,37
P [kW]	56,86	11.07.2023 17:11:14	57,85	11.07.2023 17:13:38	57,35
S <sub>v</sub> [kVA]	67,78	11.07.2023 17:11:14	68,78	11.07.2023 17:11:32	68,29
N [kvar]	36,89	11.07.2023 17:11:14	37,25	11.07.2023 17:12:32	37,07
PF	0,84	11.07.2023 17:11:20	0,84	11.07.2023 17:13:38	0,84
f [Hz]	49,98	11.07.2023 17:12:59	50,03	11.07.2023 17:10:00	50,00

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

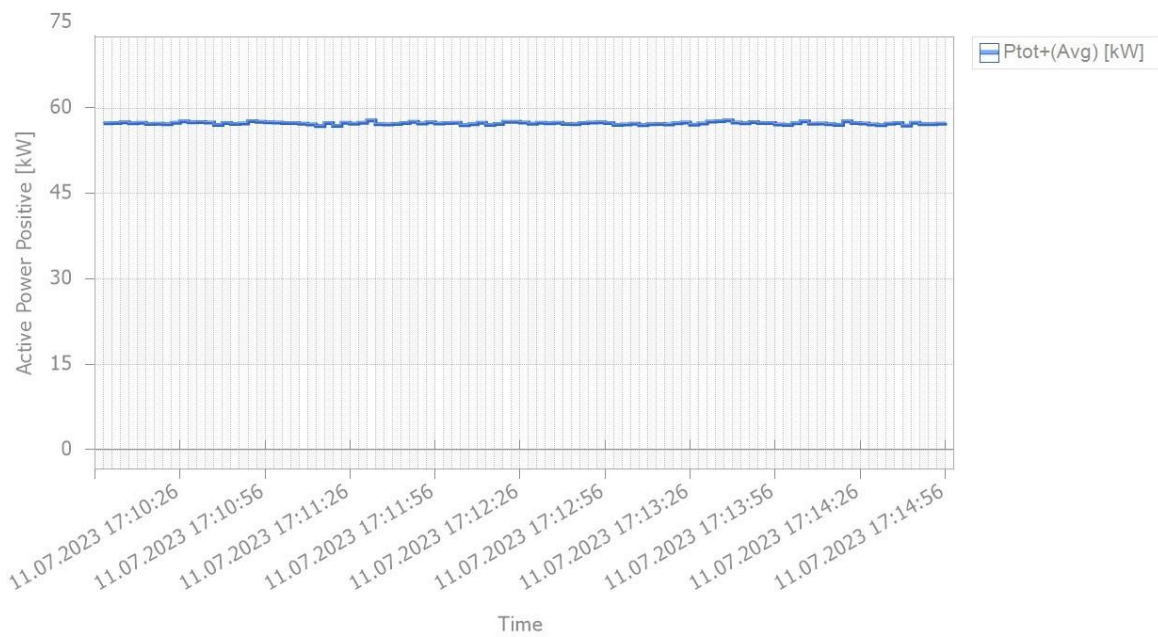
### Voltage Time Plot



## Current Time Plot

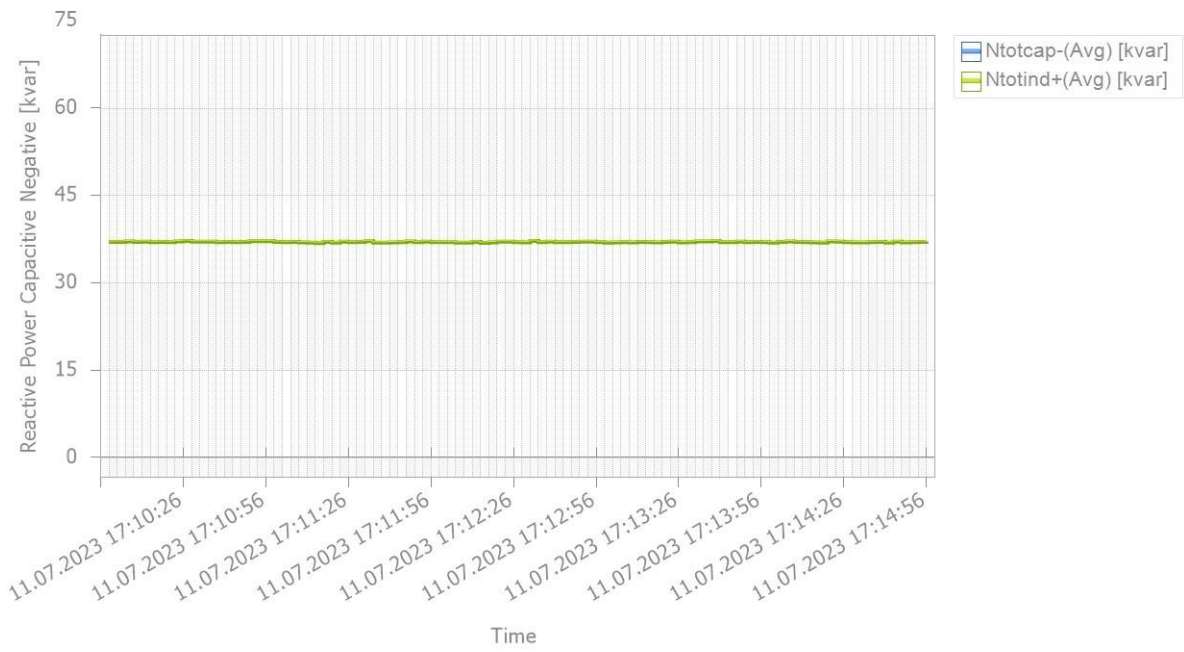


## Active Power Time Plot

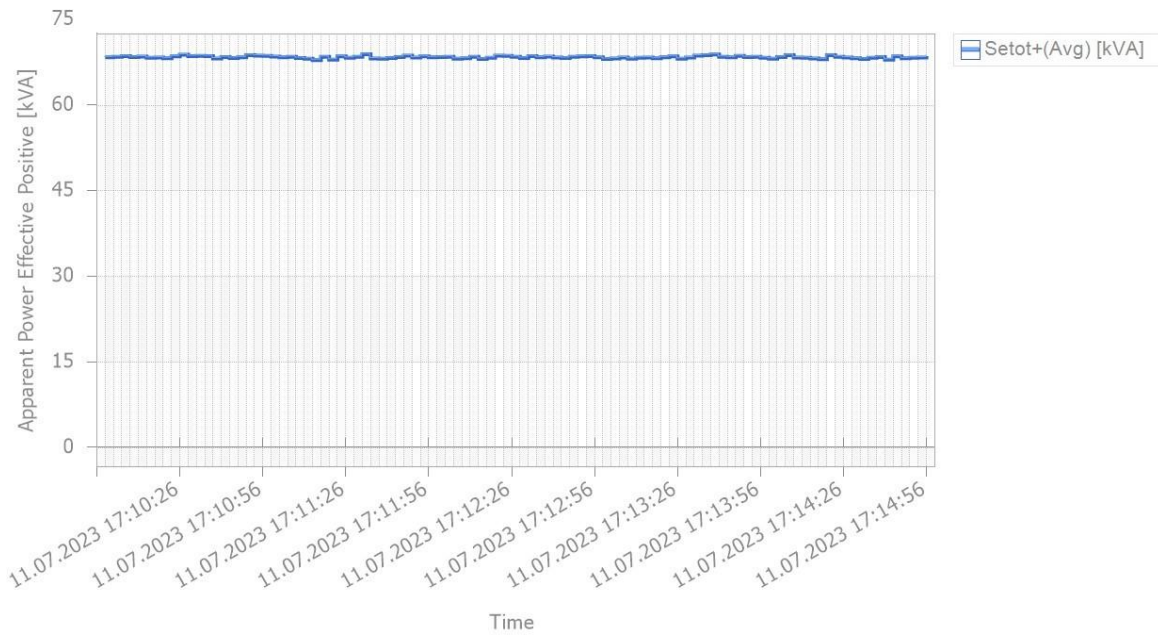




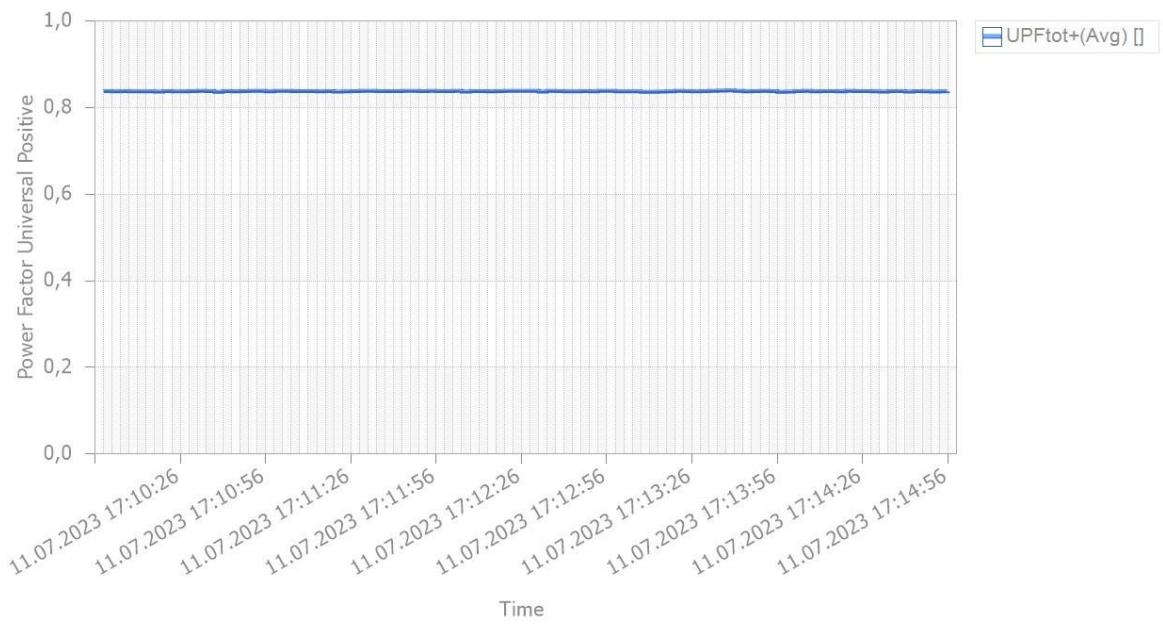
## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot



## C Blok 5 Adet Chillerin Soğutma Sirkülasyon Pompaları Güç Ölçüm Raporu

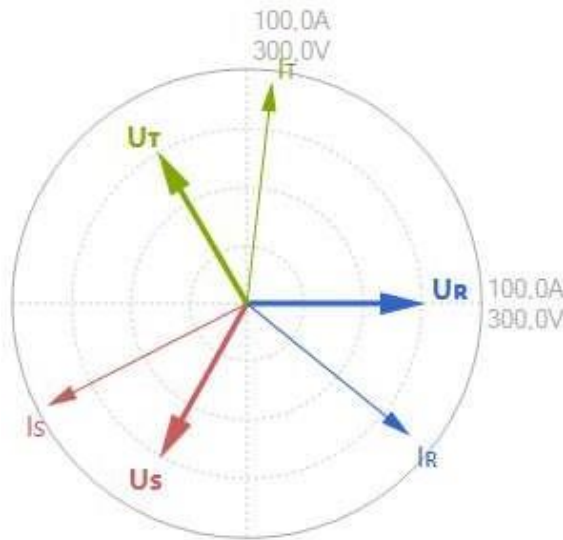
5 adet chiller soğutma sirkülasyon Pompasından 2 tanesi çalışıyor.

### Power Analysis Measurement Results

Item	R-S	S-T	T-R
Voltage (L-L) [V]	395,21	394,80	394,28

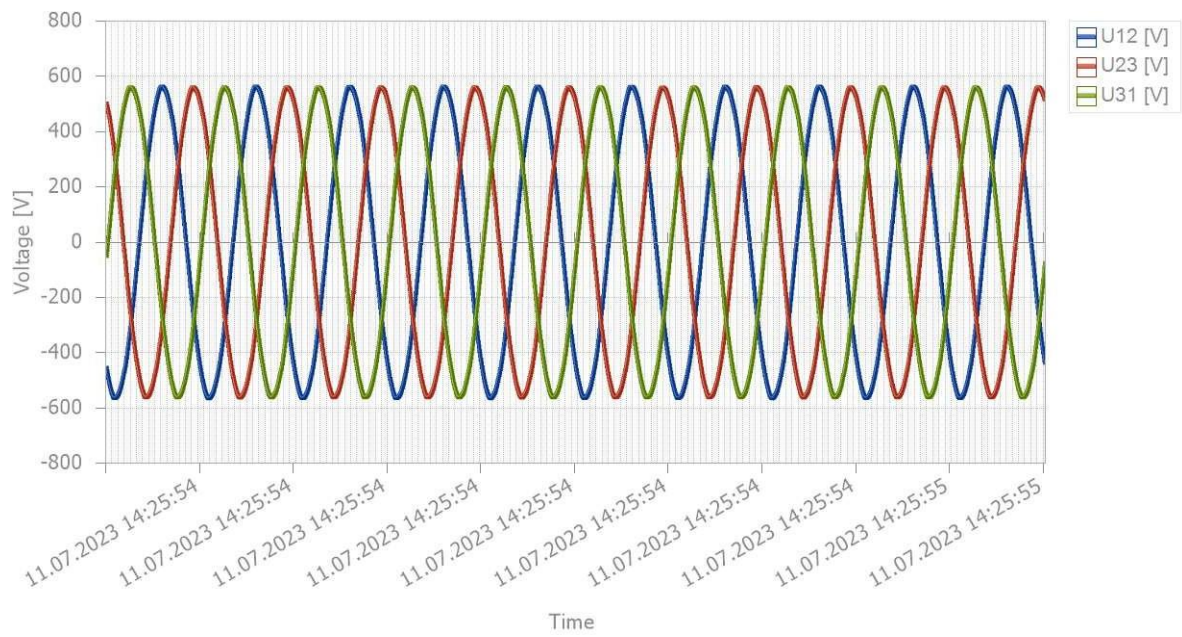
Item	R	S	T	N	Tot
Current [A]	90,28	96,64	96,05	24,23	
Load Factor [%]	93,07	99,63	99,03	24,98	
Active Power [kW]					51,75
Apparent Power [kVA]					64,41
Reactive Power [kvar]					38,68
Power Factor [%]					80,45
Frequency [Hz]					50,01

### Vector Diagram

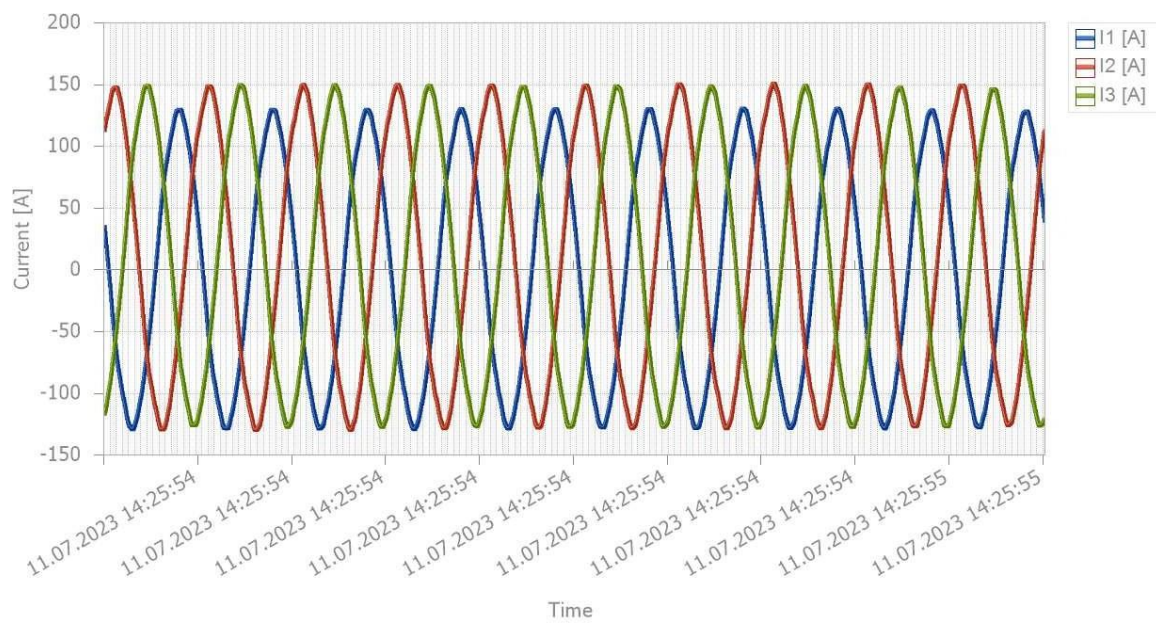


Item	Value	Angle
UR	228,54 V	0,00 °
US	228,49 V	-119,31 °
UT	226,63 V	120,35 °
IR	89,63 A	-39,07 °
IS	95,93 A	-152,87 °
IT	95,48 A	83,54 °

## Voltage Waveform



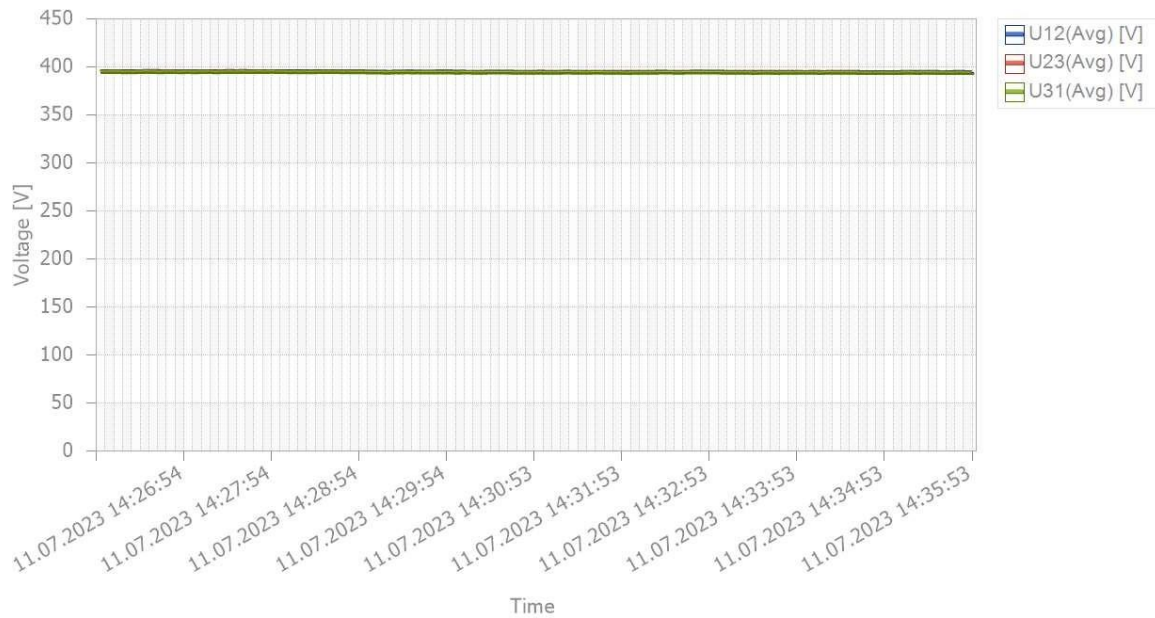
## Current Waveform



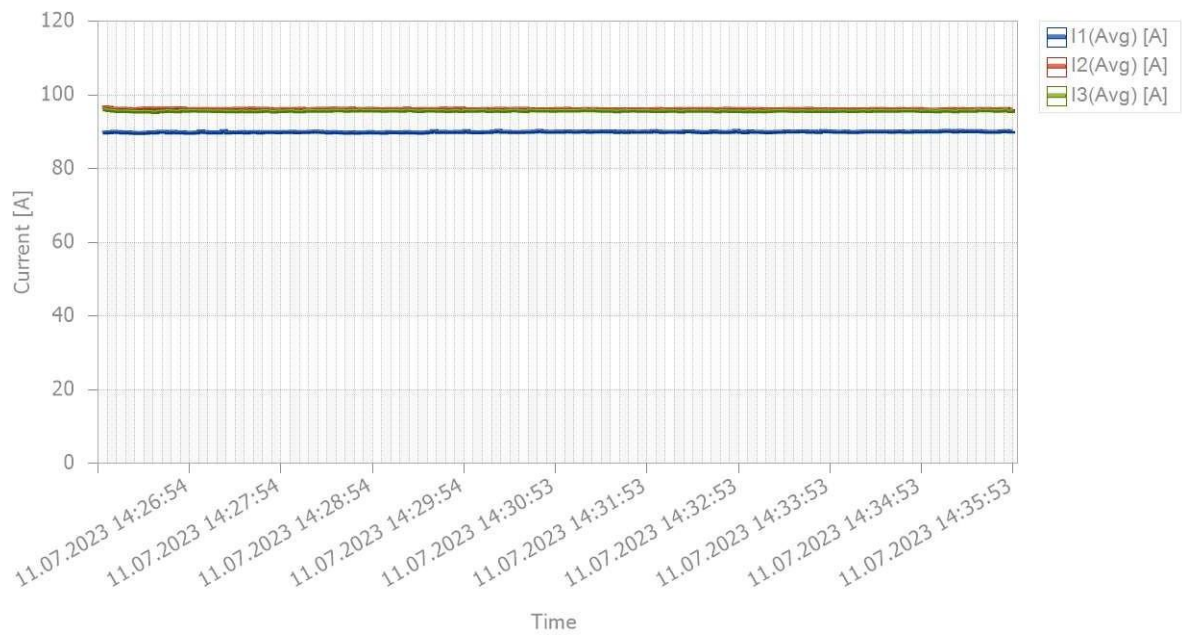
Item	Min	Time	Max	Time	Avg
U <sub>R</sub> [V]	228,26	11.07.2023 14:34:50	229,01	11.07.2023 14:27:51	228,60
U <sub>S</sub> [V]	228,14	11.07.2023 14:35:50	228,98	11.07.2023 14:26:27	228,50
U <sub>T</sub> [V]	226,31	11.07.2023 14:35:50	227,11	11.07.2023 14:26:27	226,67
U <sub>R-S</sub> [V]	394,63	11.07.2023 14:34:50	395,93	11.07.2023 14:26:27	395,21
U <sub>S-T</sub> [V]	394,14	11.07.2023 14:35:50	395,67	11.07.2023 14:26:27	394,80
U <sub>T-R</sub> [V]	393,70	11.07.2023 14:34:50	395,01	11.07.2023 14:27:51	394,28
I <sub>R</sub> [A]	89,67	11.07.2023 14:26:18	90,28	11.07.2023 14:35:08	89,97
I <sub>S</sub> [A]	95,97	11.07.2023 14:35:02	96,64	11.07.2023 14:25:57	96,17
I <sub>T</sub> [A]	95,35	11.07.2023 14:26:30	96,05	11.07.2023 14:25:57	95,68
I <sub>N</sub> [A]	8,85	11.07.2023 14:26:18	24,23	11.07.2023 14:25:57	12,82
P [kW]	51,51	11.07.2023 14:25:57	51,75	11.07.2023 14:31:11	51,63
S <sub>v</sub> [kVA]	64,05	11.07.2023 14:35:02	64,41	11.07.2023 14:25:57	64,18
N [kvar]	37,95	11.07.2023 14:35:50	38,68	11.07.2023 14:25:57	38,12
PF	0,80	11.07.2023 14:25:57	0,81	11.07.2023 14:35:47	0,80
f [Hz]	49,98	11.07.2023 14:26:18	50,03	11.07.2023 14:30:23	50,01

Related regulations: Article 18 of the Electricity Business Act Power Factor (PF): KEPCO - maintain power supply contacts of 90% or more.

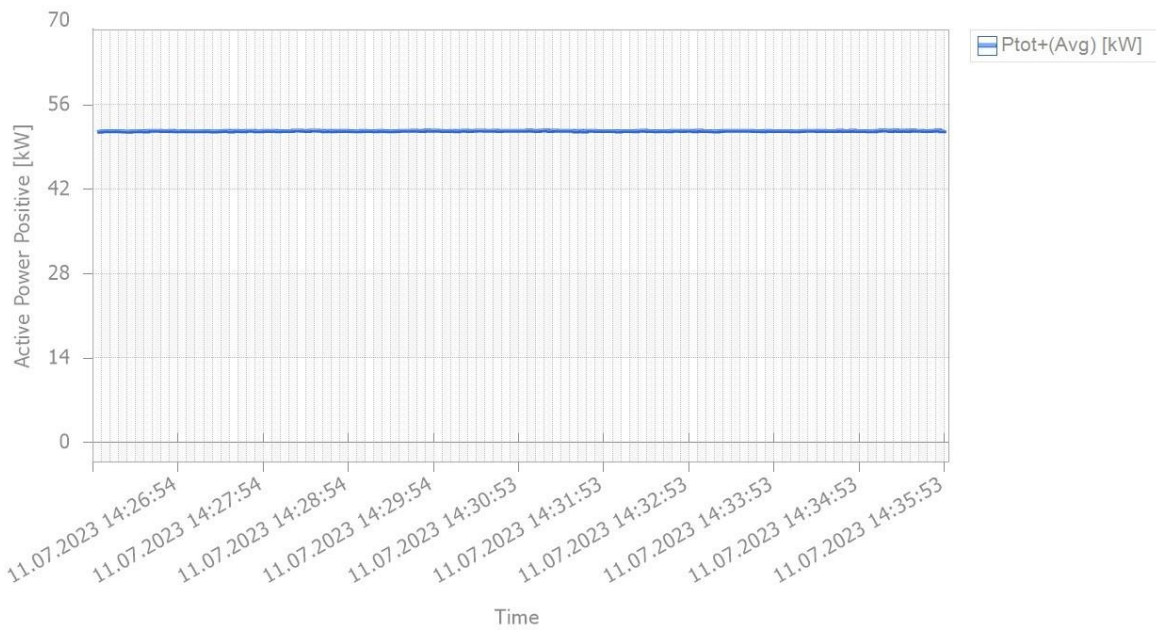
### Voltage Time Plot



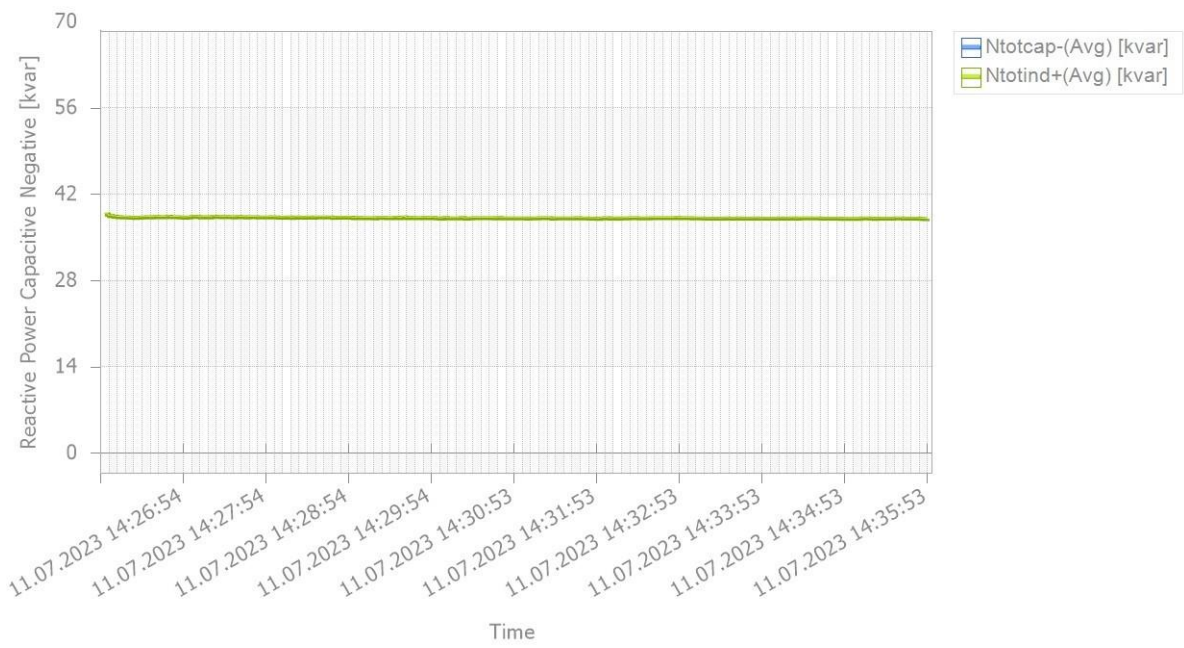
## Current Time Plot



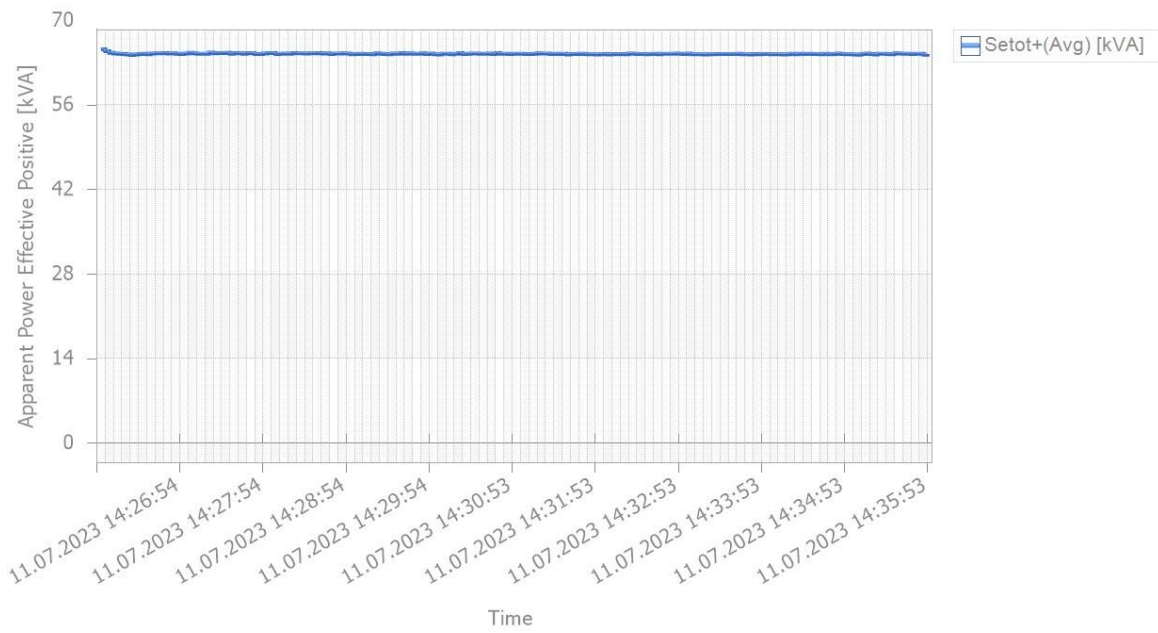
## Active Power Time Plot



## Reactive Power Time Plot



## Apparent Power Time Plot



## Power Factor Time Plot

