





TEST REPORT No. E/1/23.10.15./01

**SIA Baltic Photometric Laboratory Test Report for
Electrical Measurements of Solid-State Lighting Products**

Report reference No.	Report No.: E/1/23.10.15./01
Date of Issue	29.10.2015.
Project Handler	Ingmārs Felcis
Testing Laboratory	SIA Baltic Photometric Laboratory
Address	Gaujas iela 24/32, LV-2136, Inčukalna nov., Vangaži, Latvia
Testing location	Same as above
Client	SIA "VIZULO"
Client number	1
Address	Ganību dambis 7a, Rīga, LV-1045
Contact person	Sergejs Burtovojš, sergey.burtovoy@vizulo.eu
Standard	This SIA Baltic Photometric Laboratory test method is based on the requirements in the following standards: IES LM-79-08 and EN 13032-1:2004+A1:2012
TRF originated by	SIA Baltic Photometric Laboratory, Ingmārs Felcis
Copyright blank test report	This report based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by SIA Baltic Photometric Laboratory SIA Baltic Photometric Laboratory takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.
Number of pages (Report)	45
Compiled and approved by:	
Head of Laboratory Ingmārs Felcis-Kaipšteins	
(+signature)	



Test sample	1	
Type of test object	LED street luminaire	
Trade mark	VIZULO STORK	
Model and/or type reference	SR 200 740 02 021 S N DD 03 1	
Rating(s)	AC: 210-250 V~, 50 Hz	
Manufacturer	Same as above	
Address	Same as above	
Order Description	<input checked="" type="checkbox"/> Full test according to testing application <input type="checkbox"/> Partial test according to manufacturer's specification <input type="checkbox"/> Repeated test <input type="checkbox"/> Device check <input type="checkbox"/> Other ()	
Date of order	01.09.2015.	
Date of receipt of test item	06.10.2015.	
Date(s) of performance of test	23.10.2015.	
Equipment used	Digital Multimeter: TEKTRONIX DMM4050 (Current $\pm 0,07$ %) Single-Phase AC Power Analyzer: TEKTRONIX PA1000 (Voltage $\pm 0,08$ % $\pm 0,005$ V, Current $\pm 0,08$ %, Active power $\pm 0,15$ %) Basic AC Power Source, 1000 VA, 270 V, 5 A: KEYSIGHT AC6802A	
Test item particulars:	Lamp type: <input type="checkbox"/> Bare lamp <input checked="" type="checkbox"/> Cover lamp, no reflector <input type="checkbox"/> Lamp with reflector <input type="checkbox"/> Other:	
Rated Voltage:	210-250 V~	
Rated Frequency:	50 Hz	
Attachments:	1. Concise form of the test report	



General remarks:

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report, a point is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced except on full without the written approval of the testing laboratory.

SIA Baltic Photometric Laboratory is an accredited photometric, colorimetric testing laboratory by LATAK (Latvian National Accreditation Bureau) acc. to EN 17025 using testing methods based on IESNA LM-79-08 and EN 13032-1+A1:2012 standards.

The report must not be used by the client to claim product certification, approval or endorsement by any agency of the federal government

Summary of testing object:

Product Name	Product code	Version number (if applicable)
VIZULO STORK Street luminaire	SR 200 740 02 021 S N DD 03 1	

Additional information:

As the electronic components used in the luminaires are the same, the results of the performed tests can be considered the same or very similar for products from VIZULO product ranges Stork and Stork Little Brother with following parameters:

Power: 152 ... 200 [W]

LED module type: 02 (108 LEDs)

LED module quantity: 1

LED driver: Philips Xitanium 150W 0.35-0.7A GL Prog sXt
Philips Xitanium 150W 0.35-0.7A GL Prog sXt

These parameters correspond to following model numbers:

SR ppp xxx xx 021 x x xx xx x;

SRL ppp xxx xx 021 x x xx xx x, where ppp - 152 ... 200 [W]

Complete model number overviews of aforementioned product ranges can be seen below.



SR

Power [W]	018 ... 200
Color rendering index	≥70 - 7 ≥80 - 8
Color temperature [K]	3000 ... 5000 Standard values: 3000 K - 30 4000 K - 40
Lens type	01 ... 99
LED module type	01 ... 04 16 LEDs - 01 108 LEDs - 02 78 LEDs - 03 84 LEDs - 04 98 LEDs - 05
LED module quantity	1 ... 4
Body color	Silver (RAL 9006) - S Gray (RAL 9007) - G Asphalt (RAL 7138) - A Black (RAL 9005) - B
Console	Narrow - N
Dimming	Non dimmable - ND DALI - DD 1-10V - D1 Night time dimming - DY Wireless - DW
Surge protection [kV]	03; 06; 10
Protection class	Class I - 1 Class II - 2 Class III - 3

SRL

Power	018 ... 137 [W]
Color rendering index	≥70 - 7 ≥80 - 8
Color temperature [K]	3000 ... 5000 Standard values: 3000 K - 30 4000 K - 40
Lens type	01 ... 99
LED module type	16 LEDs - 01
LED module quantity	1 ... 4
Body color	Silver (RAL 9006) - S Gray (RAL 9007) - G Asphalt (RAL 7138) - A Black (RAL 9005) - B
Console	Narrow - N
Dimming	Non dimmable - ND DALI - DD 1-10V - D1 Night time dimming - DY Wireless - DW
Surge protection [kV]	03; 06; 10
Insulation class	Class I - 1 Class II - 2 Class III - 3

Photo of the sample and measuring devices:







Model No.: SR 200 740 02 021 S N DD 03 1



Purpose of the product
(description of intended use)

LED street lamp for general lighting purpose.

Possible test case verdicts:

- test case does not apply to the test object: N (not/ not included in the order)
- test object does meet the requirement: P (pass)
- test object does not meet the requirement: F (fail)

Possible suffixes to the verdicts:

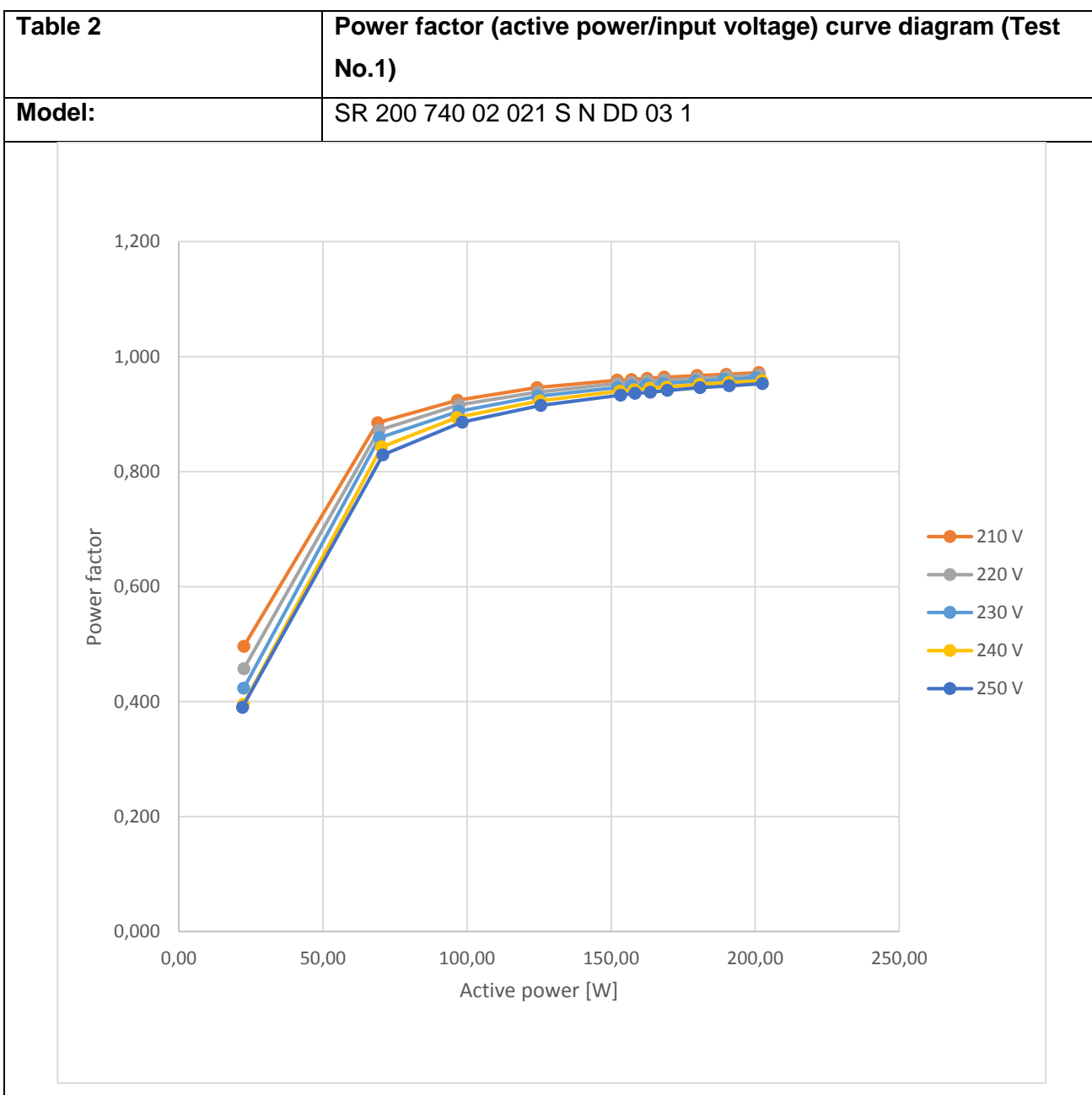
- suffix for detailed information for the client..... C (comment)
- suffix for important information for manufacturer..... M (manufacturing)

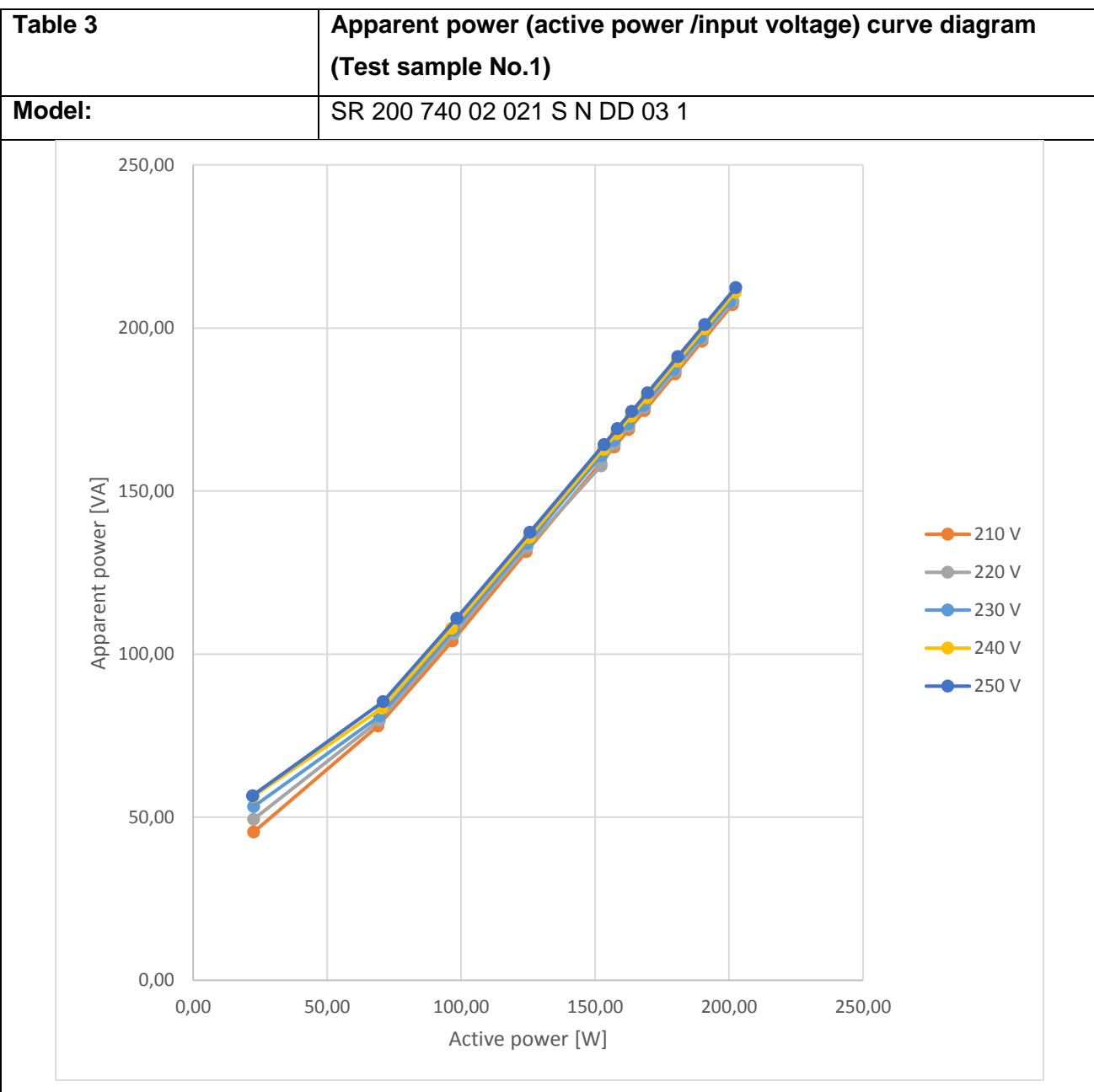


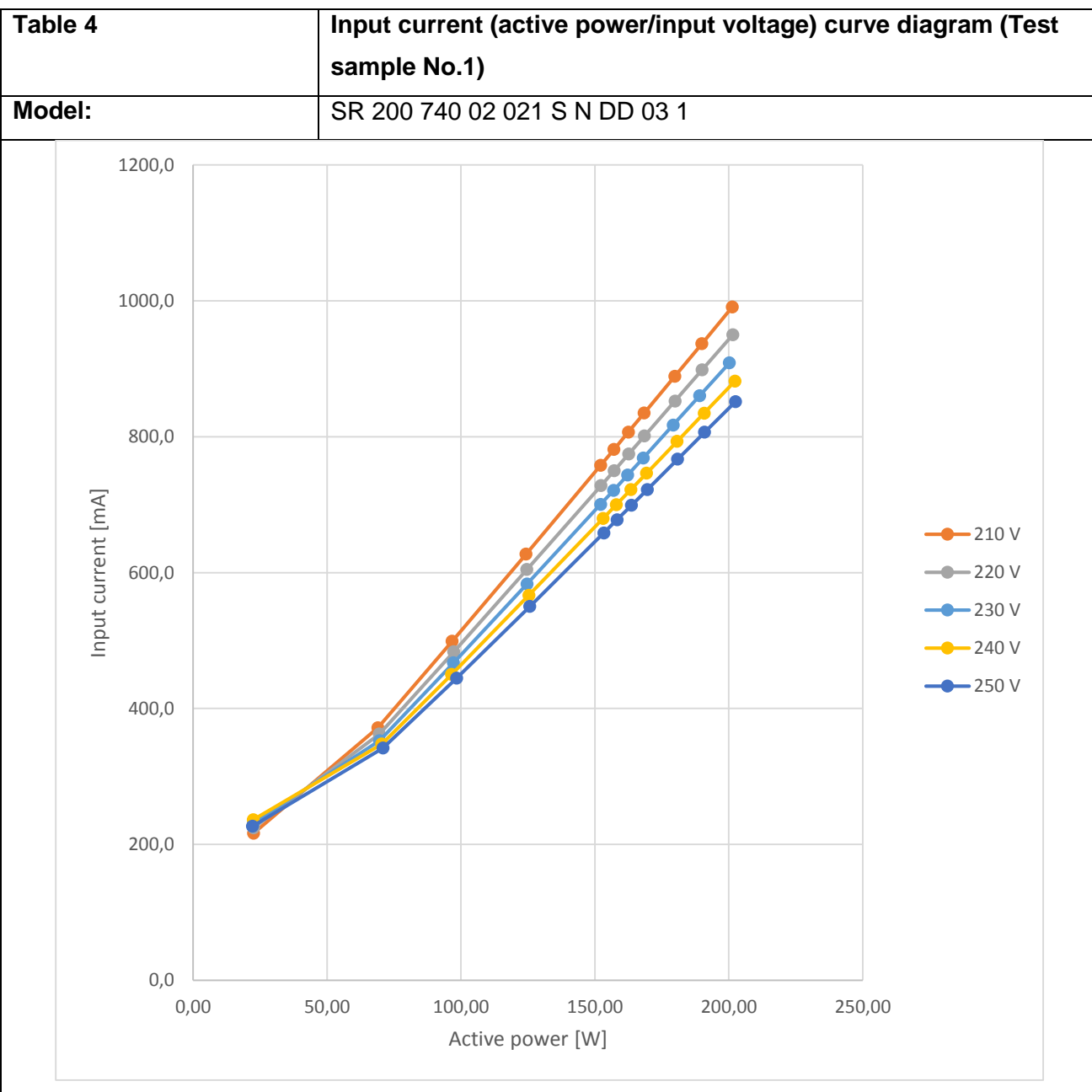
Clause	Requirement - Test	Measuring result – Remark	Verdict
2.0	Ambient Conditions		
2.1	General		P
2.2	Air Temperature		P
2.3	Thermal Condition for Mounting SSL Products		P
2.4	Air Movement		P
3.0	Power Supply Characteristics		
3.1	Wave shape of AC power supply		P
3.2	Voltage regulation		P
4.0	Seasoning of SSL Product		N
	No seasoning of SSL product		P
5.0	Stabilisation of SSL Product		
	SSL product has sufficiently stabilised before measurement		P
6.0	Operation Orientation		
	SSL product Shall be stabilized and measured in intended operating orientation	Test object is not dependent on operating orientation	P
7.0	Electrical Settings		
	SSL product shall be operated at rated voltage		P
	SSL product with dimming capability are tested at maximum input power condition		N
	SSL product with different modes are measured in all relevant modes		N
8.0	Electrical Instrumentations		
8.1	Circuits		P



Table 1	Test data		
Model:	SR 200 740 02 021 S N DD 03 1		
Rated Voltage (V):	220-240	Rated Power (W):	200
Rated Frequency (Hz):	50 Hz	Ambient temperature 25 ±1 (°C):	25.5
Test item		Measured Value	
Electrical Input Results			
Input Voltage (Volts AC)		210 - 250	
Input Frequency (Hertz)		50	
Additional Information			
Ambient Temperature (°C):		25.5	
Supplementary Information: <ul style="list-style-type: none">- Stabilisation considered reached: the variation (maximum-minimum) of readings every 5 minutes of the light output and electrical power over a period of 30 minutes is less than 0.5%.			







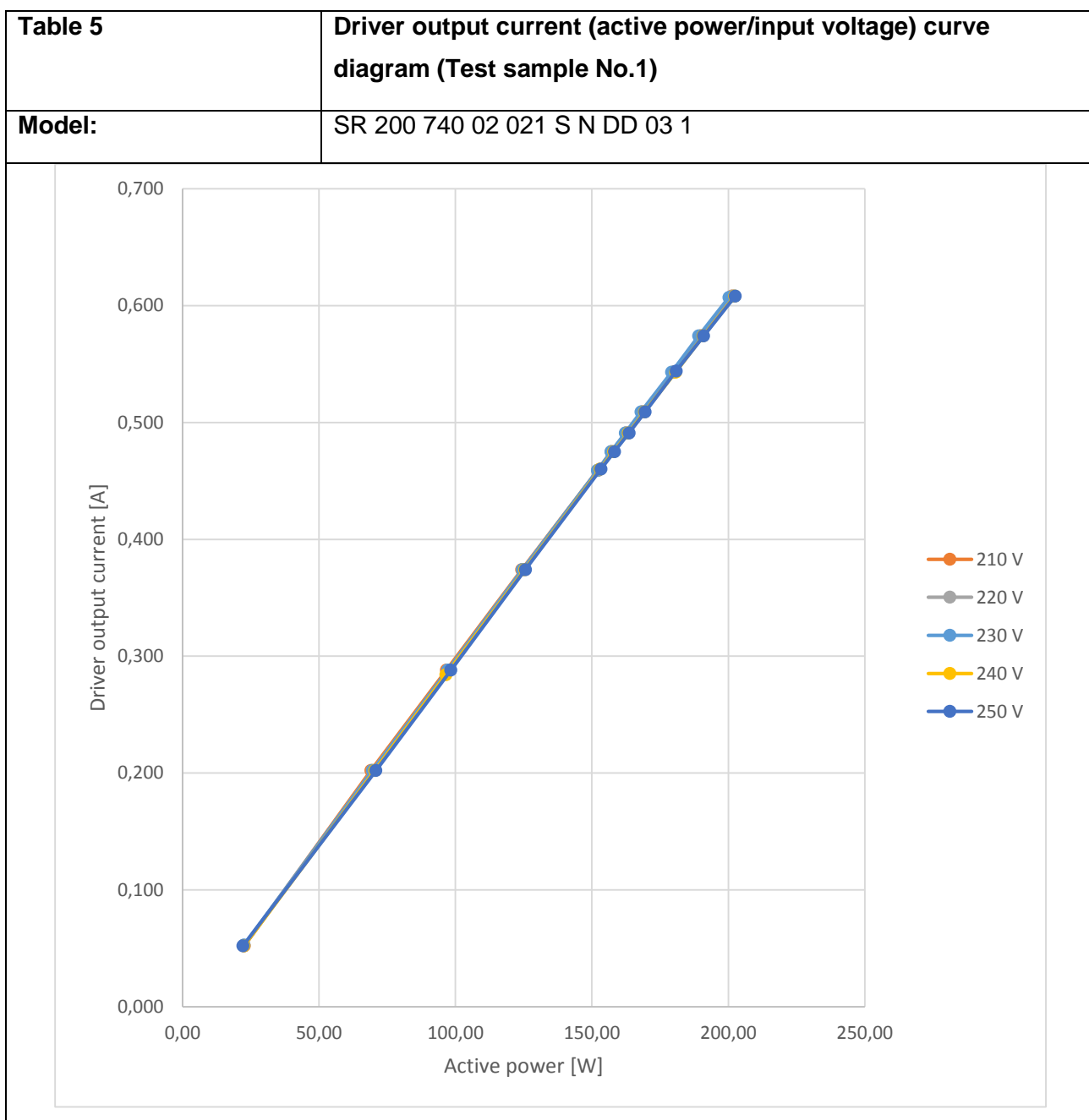




Table 6		Test data table No.1					
Model:		SR 200 740 02 021 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	200,20	208,00	0,963	908,7	0,607	100,00%
2	230	189,09	196,99	0,960	860,3	0,574	94,56%
3	230	179,20	187,27	0,957	817,2	0,543	89,46%
4	230	168,00	176,25	0,953	768,4	0,509	83,86%
5	230	162,22	170,61	0,951	743,7	0,491	80,89%
6	230	157,00	165,48	0,949	721,1	0,475	78,25%
7	230	152,08	160,69	0,946	700,3	0,459	75,62%
8	230	124,58	133,86	0,931	583,0	0,374	61,61%
9	230	97,16	107,33	0,905	467,2	0,288	47,45%
10	230	69,59	81,04	0,859	352,5	0,202	33,28%
11	230	22,48	53,22	0,423	231,2	0,053	8,68%
1	210	201,30	207,20	0,972	991,0	0,608	100,00%
2	210	189,93	195,90	0,969	936,8	0,574	94,41%
3	210	179,80	185,92	0,967	888,8	0,543	89,31%
4	210	168,37	174,66	0,964	834,7	0,509	83,72%
5	210	162,47	168,85	0,962	806,7	0,491	80,76%
6	210	157,06	163,51	0,960	781,1	0,475	78,13%
7	210	152,10	158,64	0,959	757,7	0,459	75,49%



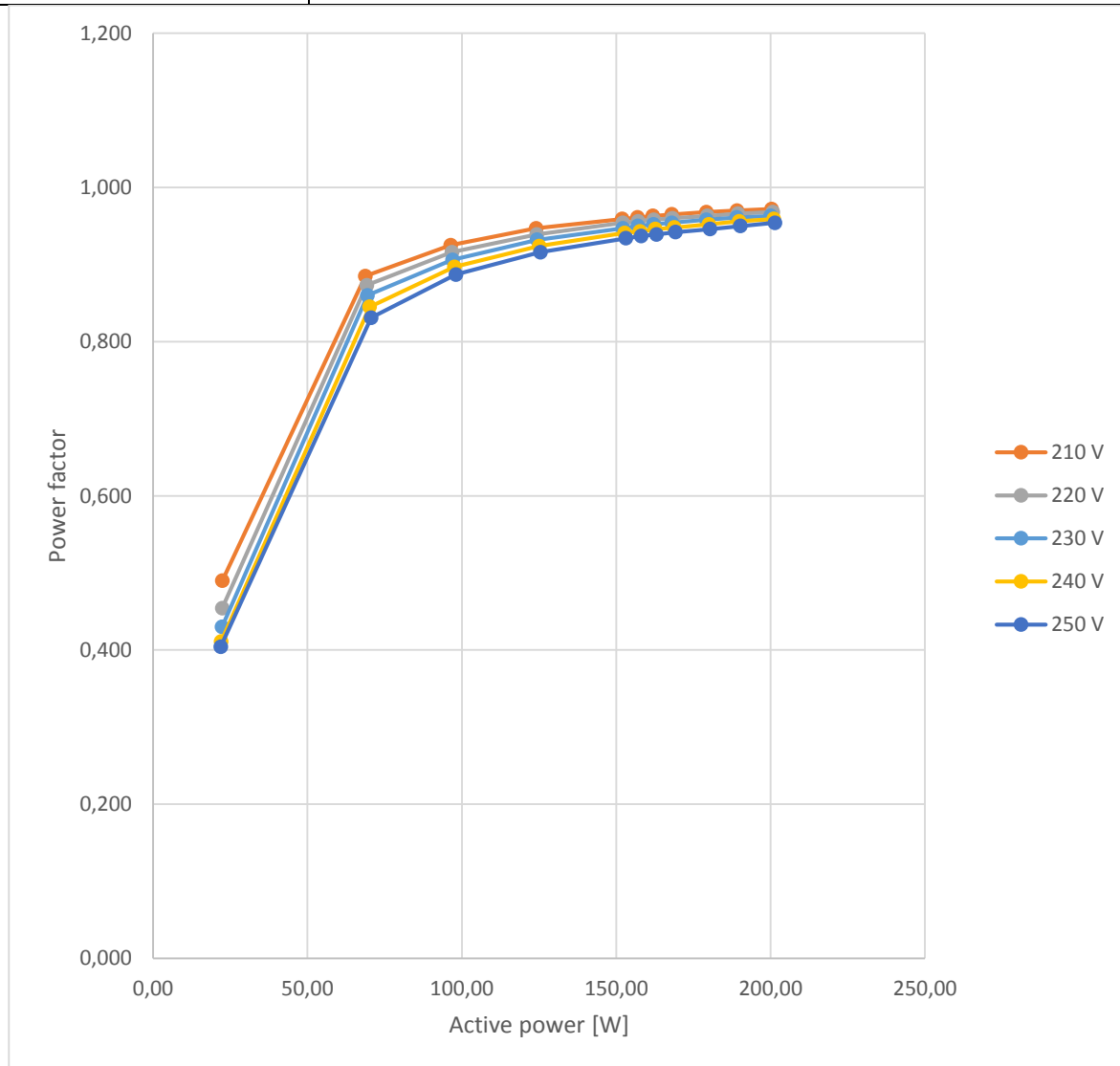
8	210	124,27	131,40	0,946	627,1	0,374	61,51%
9	210	96,68	104,00	0,924	498,8	0,288	47,37%
10	210	68,98	77,99	0,885	371,6	0,202	33,22%
11	210	22,56	45,47	0,496	216,4	0,052	8,55%
1	220	201,50	208,20	0,968	950,1	0,608	100,00%
2	220	190,02	196,91	0,965	898,4	0,574	94,41%
3	220	179,88	186,91	0,962	852,5	0,543	89,31%
4	220	168,45	175,67	0,959	801,0	0,509	83,72%
5	220	162,57	169,88	0,957	774,5	0,491	80,76%
6	220	157,16	164,57	0,955	750,1	0,475	78,13%
7	220	152,23	157,74	0,953	728,0	0,459	75,49%
8	220	124,56	132,74	0,938	604,5	0,374	61,51%
9	220	97,25	106,23	0,916	483,4	0,288	47,37%
10	220	69,48	79,65	0,872	362,3	0,202	33,22%
11	220	22,54	49,39	0,457	224,4	0,052	8,55%
1	240	202,30	211,00	0,958	881,9	0,608	100,00%
2	240	190,75	199,73	0,955	834,6	0,574	94,41%
3	240	180,66	189,82	0,952	793,0	0,543	89,31%
4	240	169,26	178,66	0,947	746,2	0,509	83,72%
5	240	163,37	172,90	0,945	722,0	0,491	80,76%
6	240	157,96	167,60	0,942	699,8	0,475	78,13%
7	240	153,02	162,77	0,940	679,6	0,460	75,66%

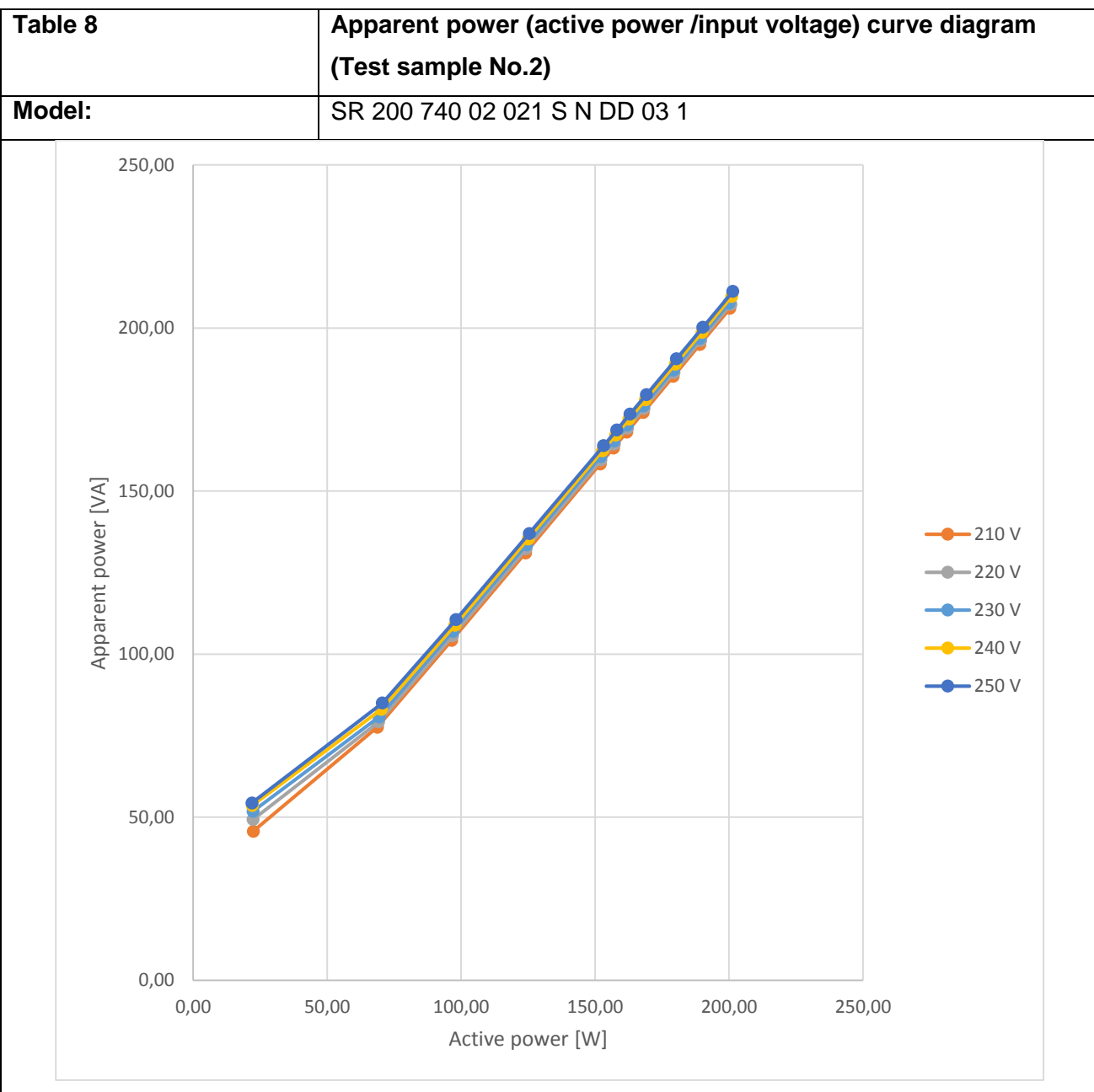


8	240	125,31	135,78	0,923	566,6	0,374	61,51%
9	240	96,47	107,90	0,894	450,1	0,284	46,71%
10	240	70,37	83,43	0,843	347,7	0,202	33,22%
11	240	22,42	56,41	0,395	236,2	0,052	8,55%
1	250	202,50	212,40	0,953	851,7	0,608	100,00%
2	250	190,93	201,10	0,949	806,5	0,574	94,41%
3	250	180,86	191,25	0,946	766,8	0,544	89,47%
4	250	169,50	180,12	0,941	722,0	0,509	83,72%
5	250	163,64	174,39	0,938	698,9	0,491	80,76%
6	250	158,24	169,10	0,936	677,7	0,475	78,13%
7	250	153,31	164,29	0,933	658,3	0,460	75,66%
8	250	125,64	137,38	0,915	550,2	0,374	61,51%
9	250	98,32	111,02	0,886	444,4	0,288	47,37%
10	250	70,83	85,40	0,829	341,7	0,202	33,22%
11	250	22,07	56,58	0,390	226,5	0,052	8,55%



Table 7	Power factor (active power/input voltage) curve diagram (Test No.2)
Model:	SR 200 740 02 021 S N DD 03 1





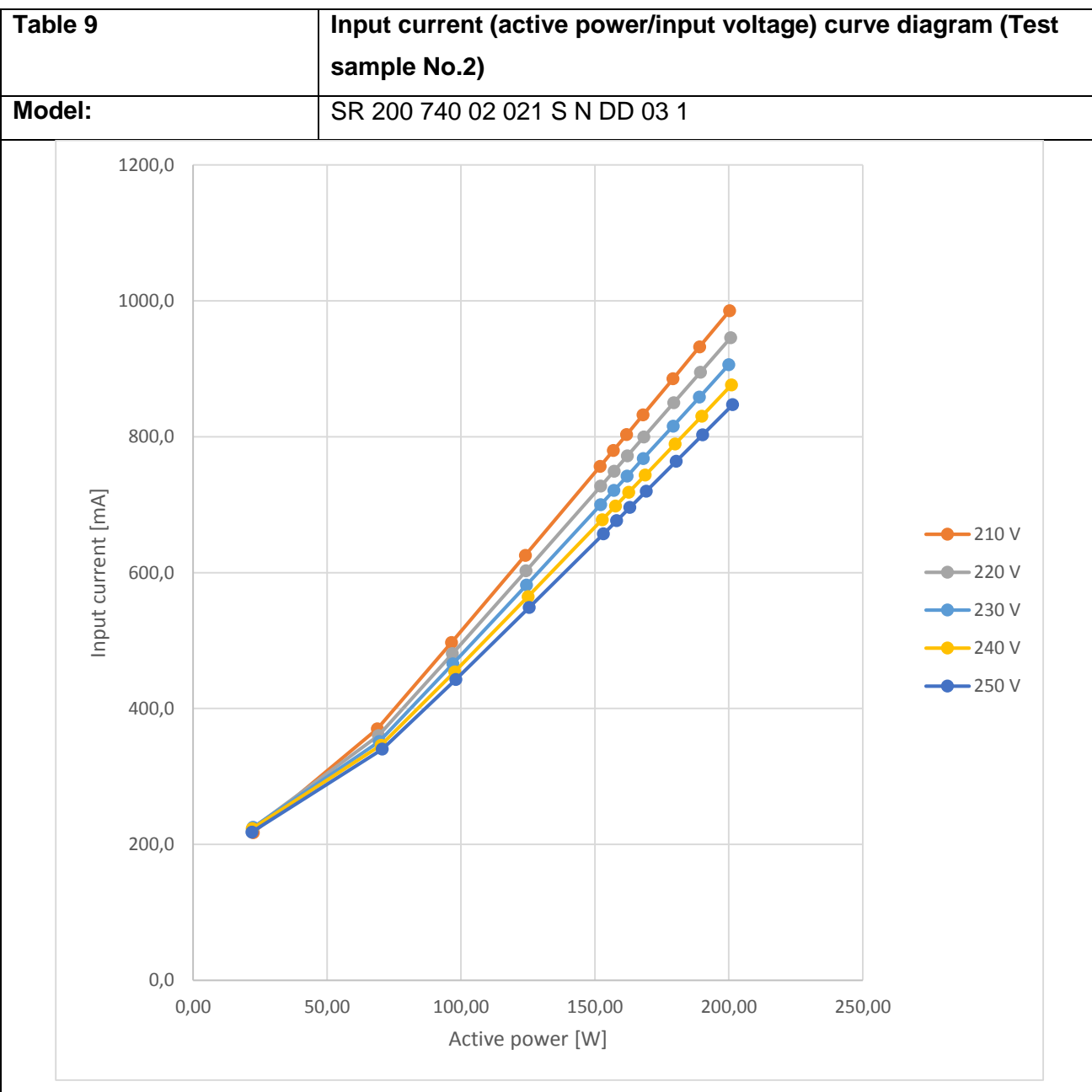




Table 10	Driver output current (active power/input voltage) curve diagram (Test sample No.2)
Model:	SR 200 740 02 021 S N DD 03 1

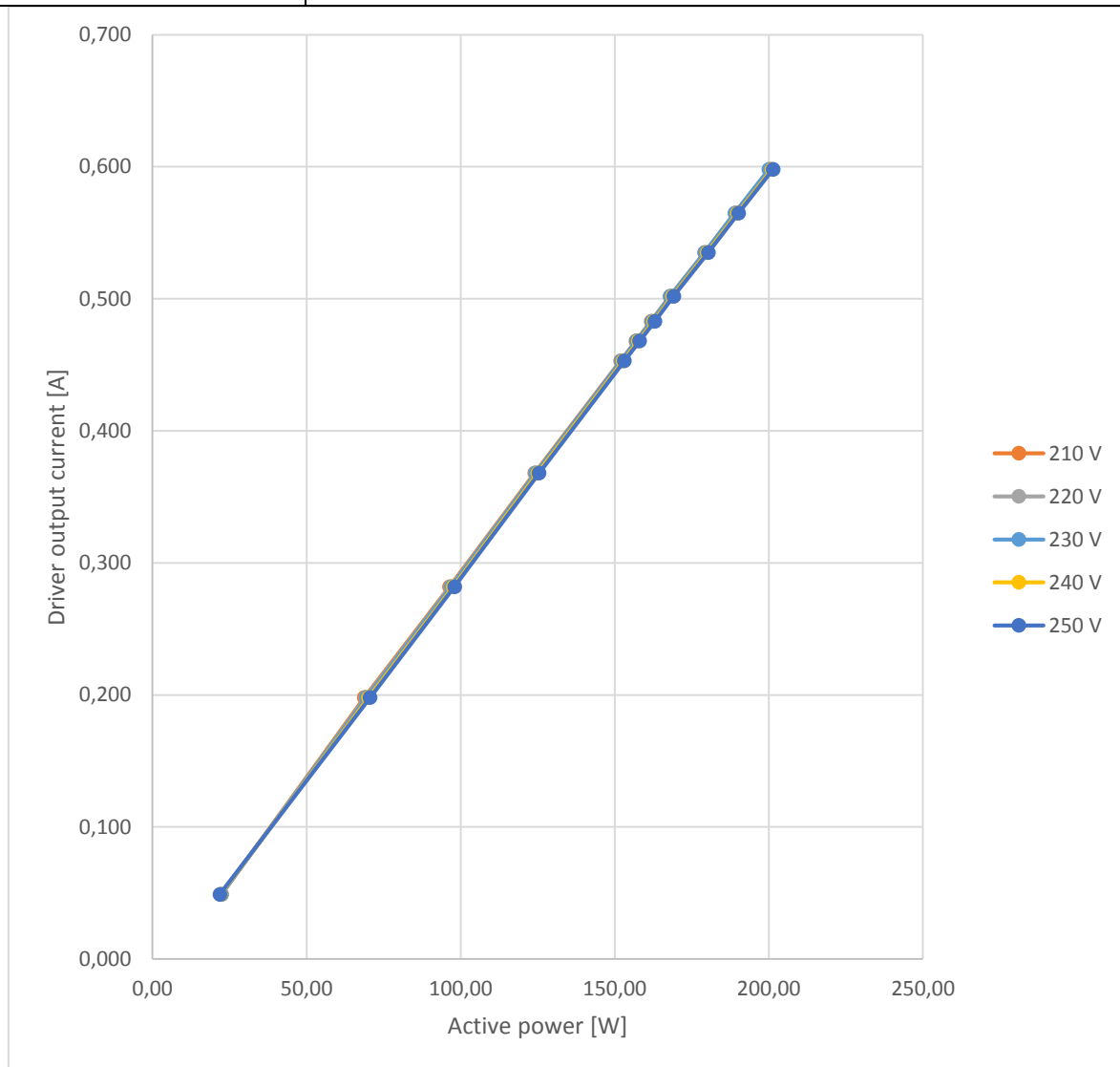




Table 11		Test data table No.2					
Model:		SR 200 740 02 021 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	200,00	207,60	0,963	906,0	0,598	100,00%
2	230	189,00	196,73	0,961	858,2	0,565	94,48%
3	230	179,16	187,07	0,958	815,5	0,535	89,46%
4	230	168,00	176,11	0,954	767,9	0,502	83,95%
5	230	162,00	170,18	0,952	741,9	0,483	80,77%
6	230	157,02	165,36	0,950	720,8	0,468	78,26%
7	230	152,10	160,55	0,947	699,8	0,453	75,75%
8	230	124,38	133,51	0,932	581,5	0,368	61,54%
9	230	96,92	106,97	0,906	465,6	0,282	47,16%
10	230	69,43	80,73	0,860	351,2	0,198	33,11%
11	230	22,31	51,79	0,430	225,0	0,049	8,19%
1	210	200,30	206,00	0,972	985,5	0,598	100,00%
2	210	189,07	194,94	0,970	932,3	0,565	94,48%
3	210	179,15	185,16	0,968	885,2	0,535	89,46%
4	210	167,95	174,12	0,965	832,1	0,502	83,95%
5	210	161,81	168,08	0,963	803,1	0,483	80,77%
6	210	156,84	163,19	0,961	779,6	0,468	78,26%
7	210	151,88	158,32	0,959	756,2	0,453	75,75%



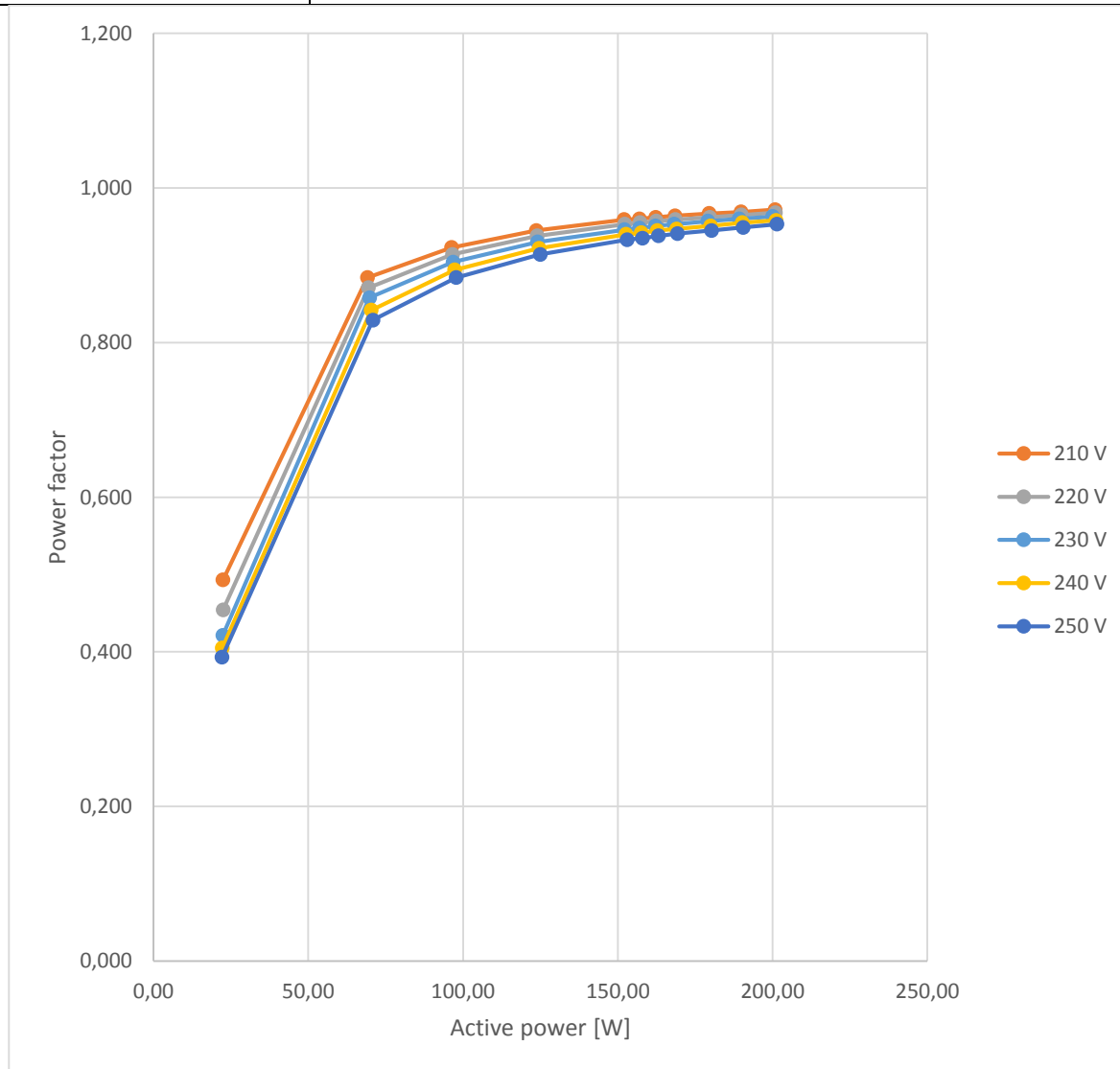
8	210	124,00	131,01	0,947	625,3	0,368	61,54%
9	210	96,39	104,20	0,925	496,9	0,282	47,16%
10	210	68,71	77,61	0,885	369,8	0,198	33,11%
11	210	22,40	45,67	0,490	217,2	0,049	8,19%
1	220	200,70	207,30	0,968	945,7	0,598	100,00%
2	220	189,40	196,16	0,966	895,0	0,565	94,48%
3	220	179,44	186,35	0,963	850,0	0,535	89,46%
4	220	168,22	175,31	0,960	799,4	0,502	83,95%
5	220	162,08	169,28	0,958	771,7	0,483	80,77%
6	220	157,11	164,38	0,956	749,3	0,468	78,26%
7	220	152,15	159,52	0,954	727,1	0,453	75,75%
8	220	124,26	132,31	0,939	602,6	0,368	61,54%
9	220	96,75	105,61	0,916	480,6	0,282	47,16%
10	220	69,17	79,21	0,873	360,2	0,198	33,11%
11	220	22,33	49,30	0,454	224,0	0,049	8,19%
1	240	201,00	209,70	0,959	876,3	0,598	100,00%
2	240	189,84	198,66	0,956	830,1	0,565	94,48%
3	240	179,96	188,94	0,952	789,4	0,535	89,46%
4	240	168,77	177,99	0,948	743,4	0,502	83,95%
5	240	162,63	172,00	0,946	718,3	0,483	80,77%
6	240	157,67	167,15	0,943	698,0	0,468	78,26%
7	240	152,72	162,32	0,941	677,7	0,453	75,75%

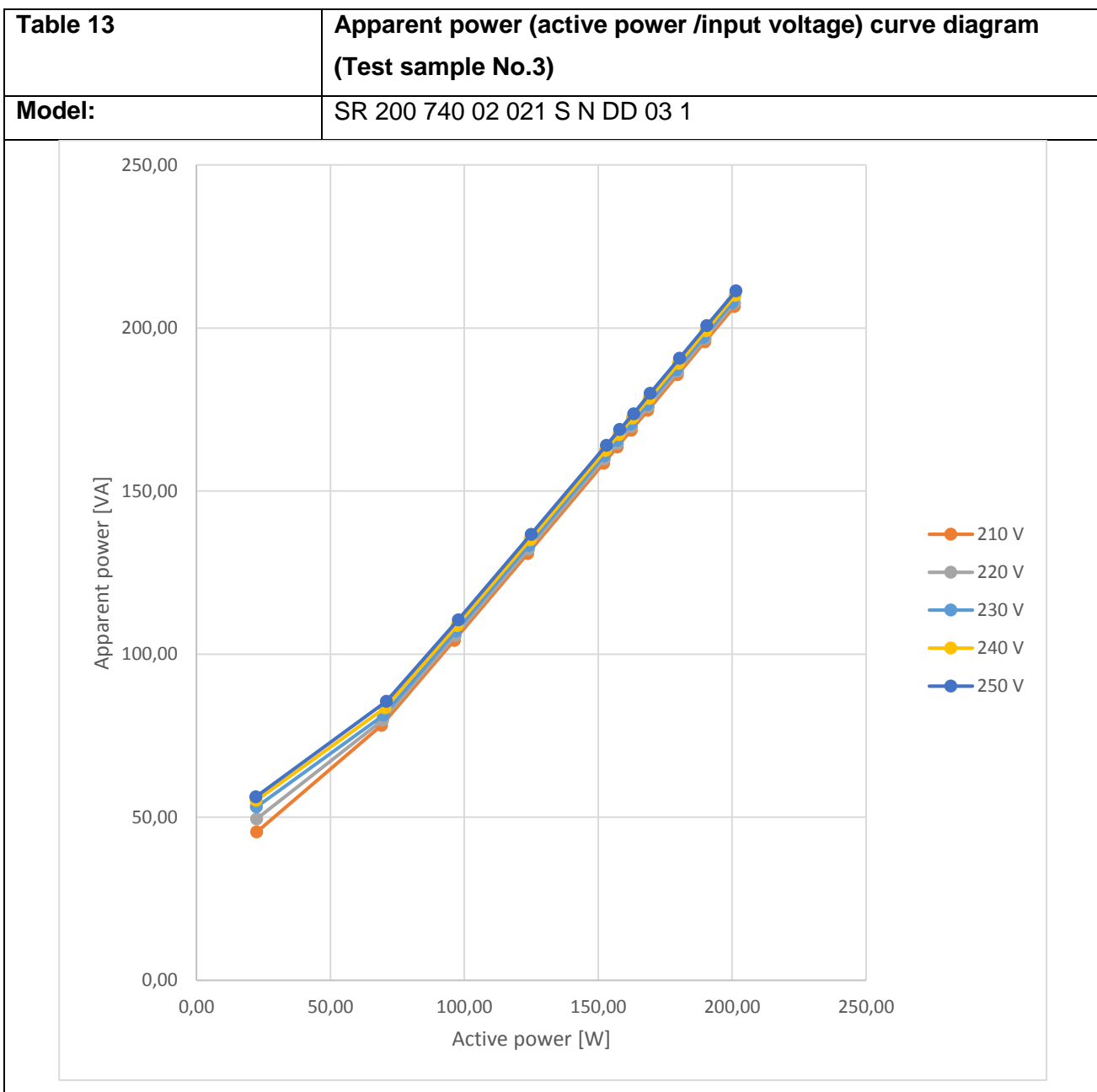


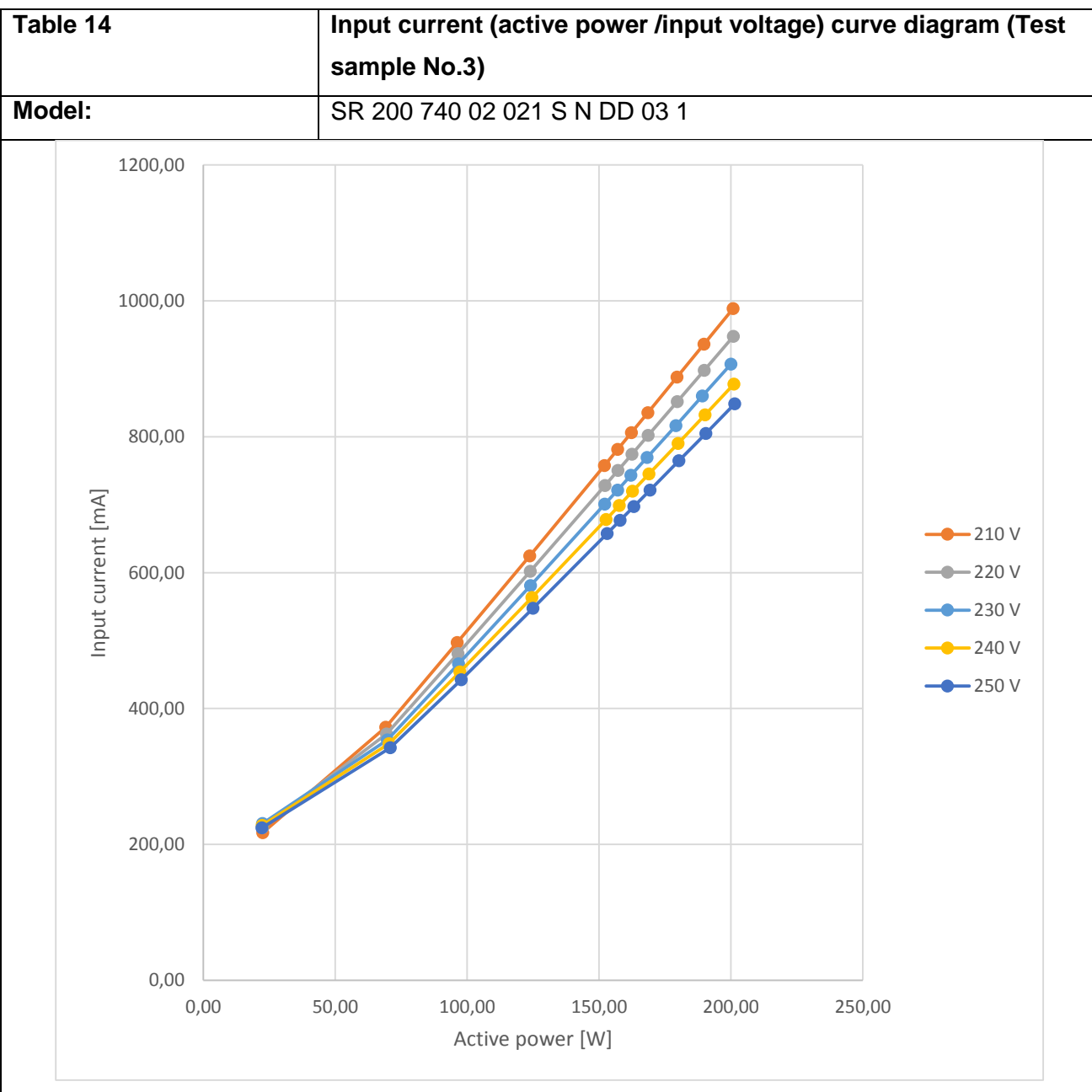
8	240	125,01	135,31	0,924	564,6	0,368	61,54%
9	240	97,59	108,83	0,897	453,8	0,282	47,16%
10	240	70,11	82,99	0,845	345,9	0,198	33,11%
11	240	22,02	53,62	0,411	223,1	0,049	8,19%
1	250	201,40	211,20	0,954	847,0	0,598	100,00%
2	250	190,21	200,20	0,950	802,9	0,565	94,48%
3	250	180,33	190,55	0,946	764,0	0,535	89,46%
4	250	169,15	179,59	0,942	719,9	0,502	83,95%
5	250	163,04	173,61	0,939	695,8	0,483	80,77%
6	250	158,07	168,76	0,937	676,3	0,468	78,26%
7	250	153,13	163,92	0,934	656,9	0,453	75,75%
8	250	125,43	136,99	0,916	548,6	0,368	61,54%
9	250	98,04	110,55	0,887	442,5	0,282	47,16%
10	250	70,60	84,99	0,831	340,0	0,198	33,11%
11	250	21,87	54,34	0,404	218,0	0,049	8,19%



Table 12	Power factor (active power/input voltage) curve diagram (Test No.3)
Model:	SR 200 740 02 021 S N DD 03 1







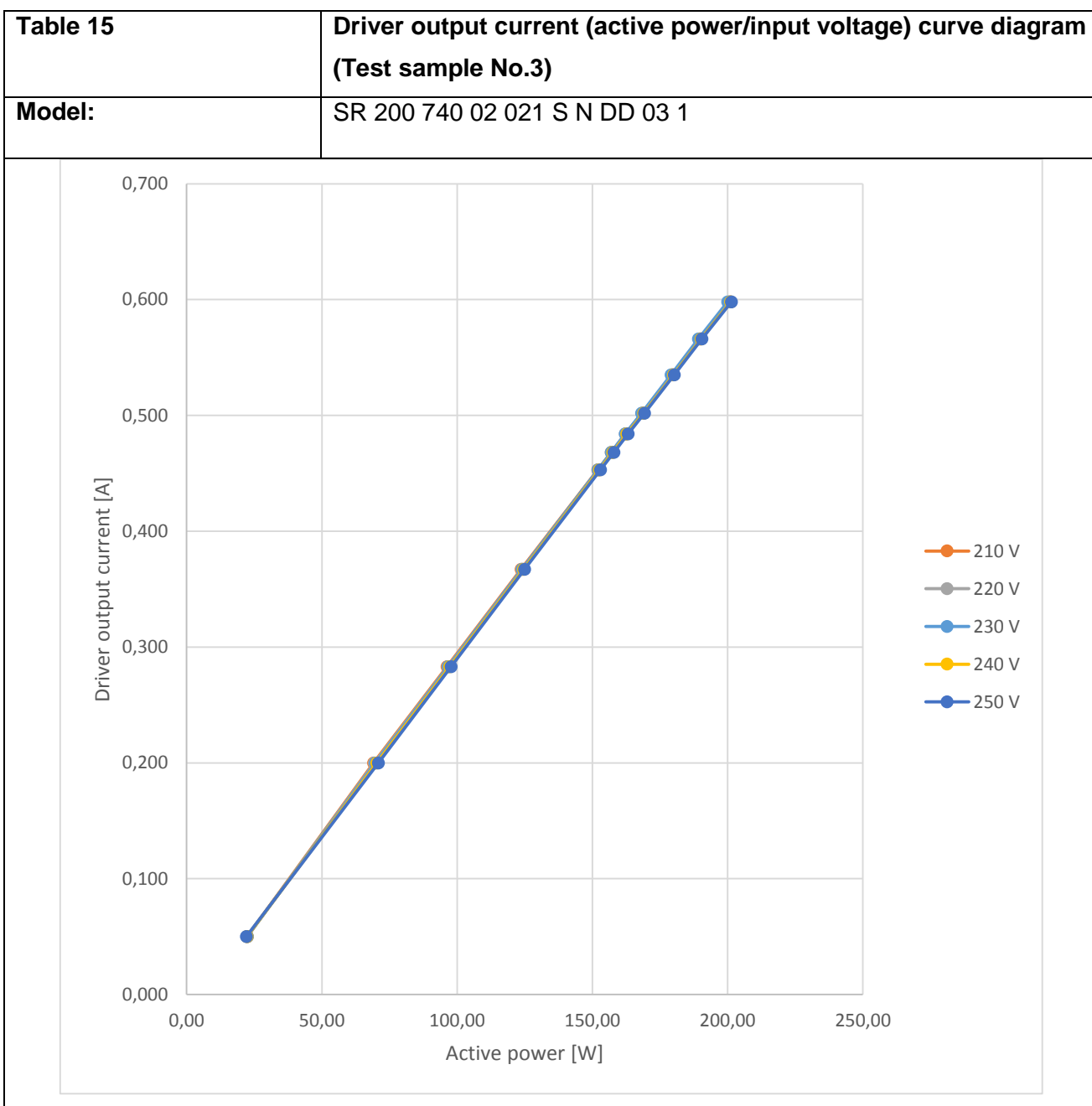




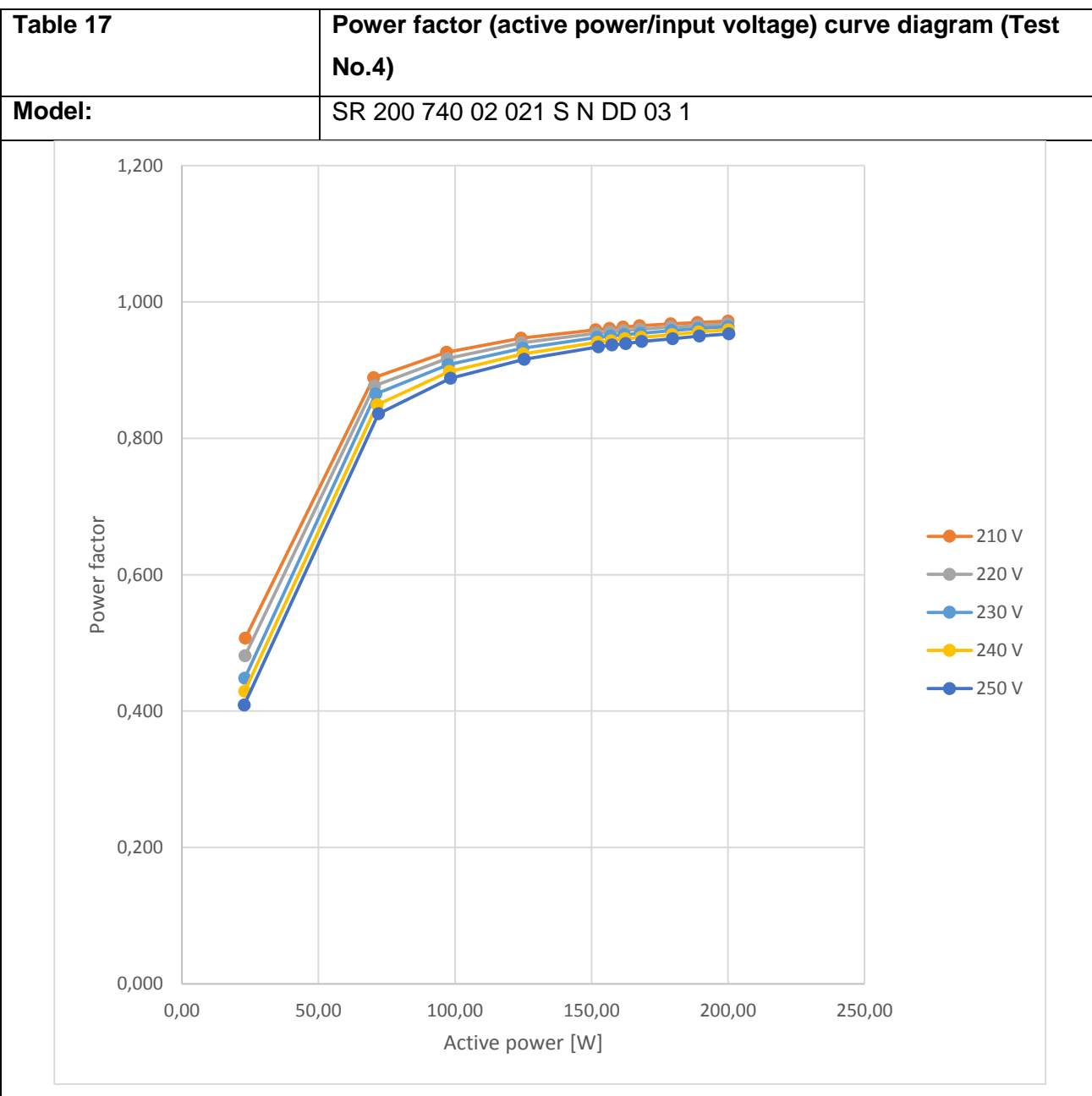
Table 16		Test data table No.3					
Model:		SR 200 740 02 021 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	200,00	207,80	0,963	906,70	0,598	100,00%
2	230	189,20	197,11	0,960	859,90	0,566	94,65%
3	230	179,13	187,20	0,957	816,40	0,535	89,46%
4	230	168,19	176,48	0,953	769,40	0,502	83,95%
5	230	162,08	170,50	0,951	743,30	0,484	80,94%
6	230	157,00	165,50	0,948	721,40	0,468	78,26%
7	230	152,11	160,75	0,946	700,60	0,453	75,75%
8	230	124,01	133,35	0,930	580,80	0,367	61,37%
9	230	96,75	107,01	0,904	465,80	0,283	47,32%
10	230	69,75	81,28	0,858	353,50	0,200	33,44%
11	230	22,35	53,17	0,421	230,60	0,050	8,36%
1	210	200,80	206,60	0,972	988,50	0,598	100,00%
2	210	189,77	195,75	0,969	936,00	0,566	94,65%
3	210	179,52	185,65	0,967	887,50	0,535	89,46%
4	210	168,45	174,75	0,964	835,10	0,502	83,95%
5	210	162,27	168,66	0,962	805,80	0,484	80,94%
6	210	157,01	163,49	0,960	781,10	0,468	78,26%
7	210	152,02	158,58	0,959	757,50	0,453	75,75%

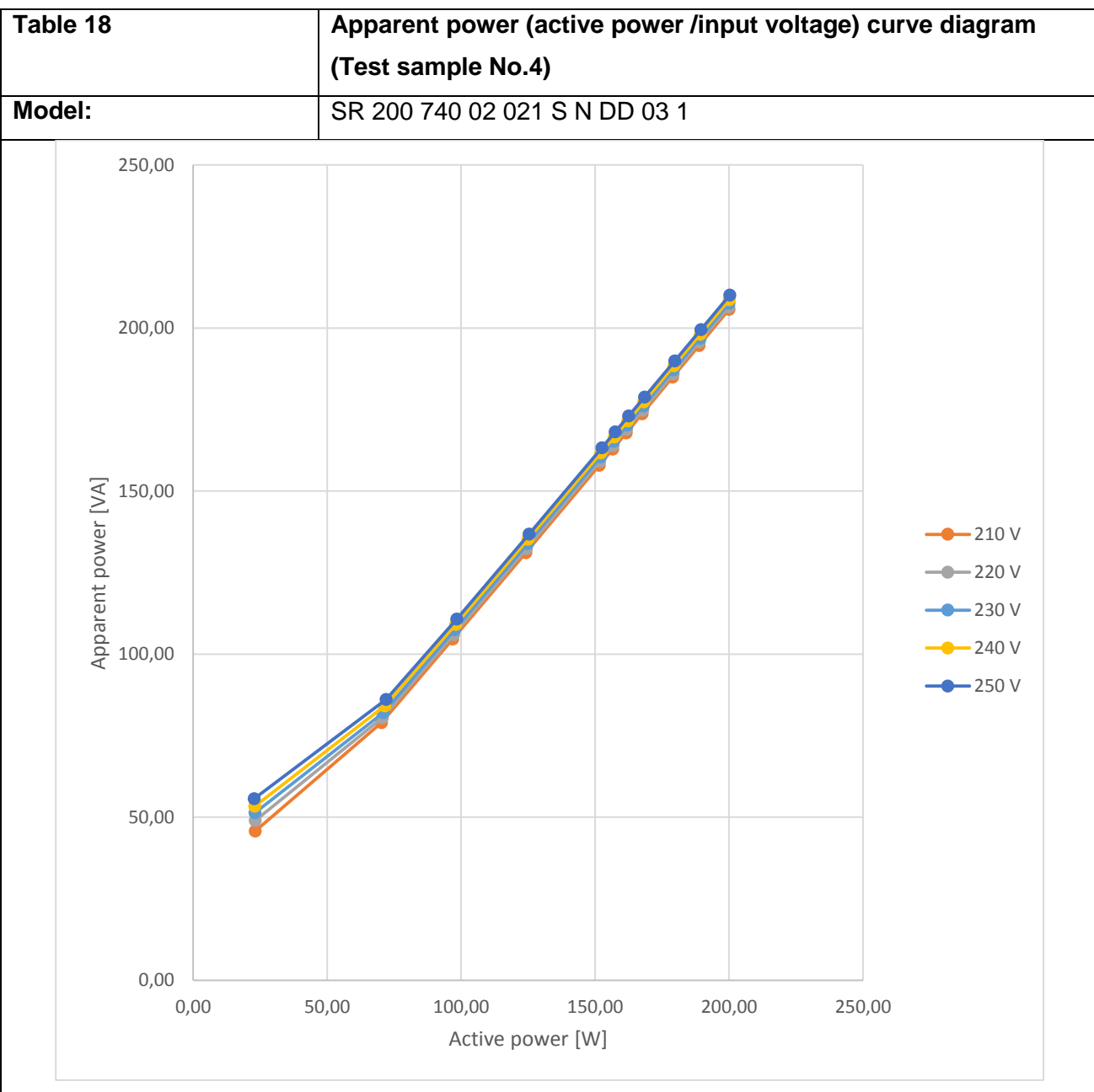


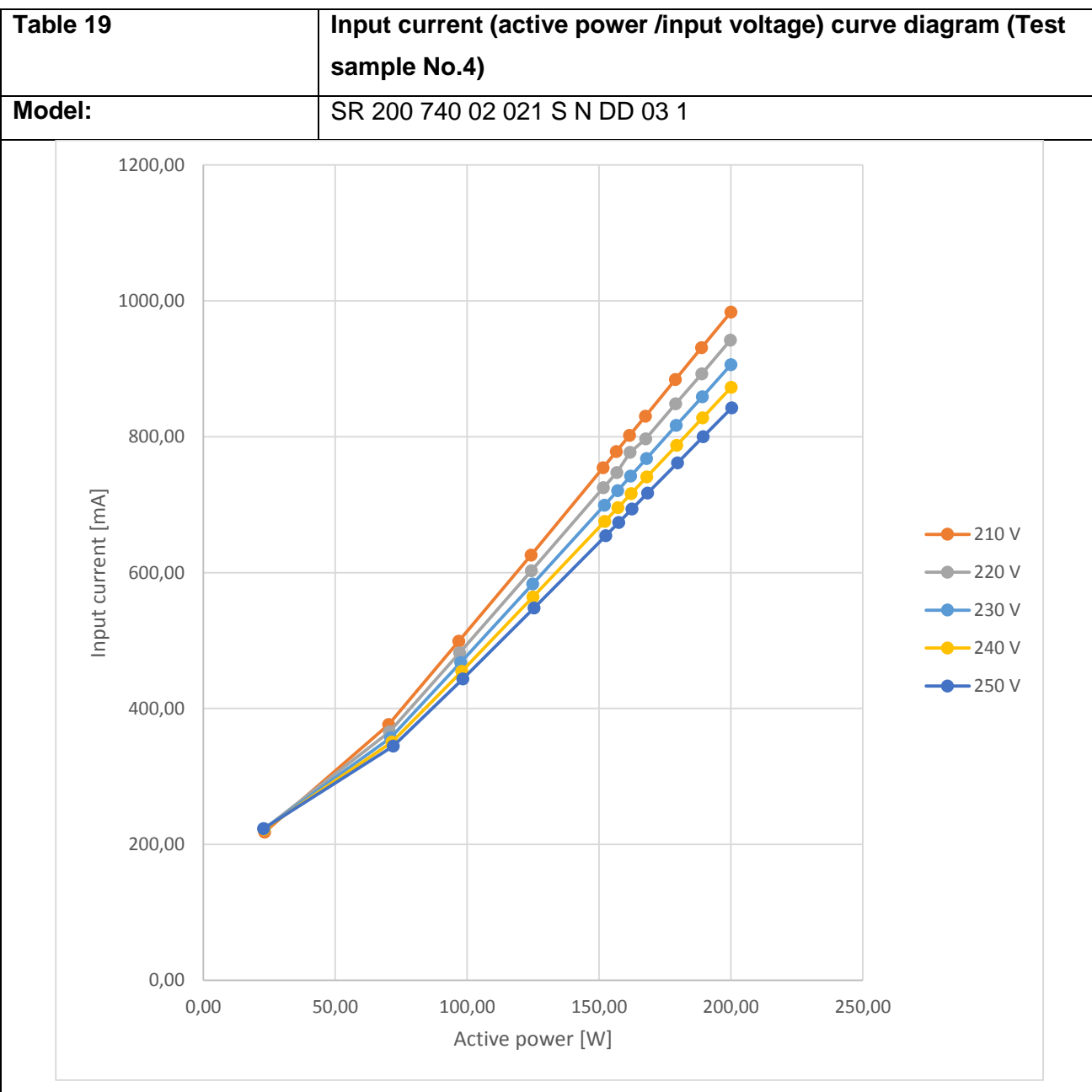
8	210	123,66	130,86	0,945	624,60	0,367	61,37%
9	210	96,23	104,22	0,923	497,00	0,283	47,32%
10	210	69,06	78,15	0,884	372,40	0,200	33,44%
11	210	22,42	45,46	0,493	217,00	0,050	8,36%
1	220	200,90	207,70	0,968	947,80	0,598	100,00%
2	220	189,89	196,78	0,965	897,80	0,566	94,65%
3	220	179,66	186,70	0,962	851,60	0,535	89,46%
4	220	168,60	175,82	0,959	801,80	0,502	83,95%
5	220	162,42	169,77	0,957	774,00	0,484	80,94%
6	220	157,19	164,62	0,955	750,40	0,468	78,26%
7	220	152,21	159,75	0,953	728,10	0,453	75,75%
8	220	123,91	132,15	0,938	601,90	0,367	61,37%
9	220	96,53	105,60	0,914	480,60	0,283	47,32%
10	220	69,42	79,68	0,871	362,40	0,200	33,44%
11	220	22,44	49,45	0,454	224,50	0,050	8,36%
1	240	201,10	210,00	0,958	877,50	0,598	100,00%
2	240	190,15	199,15	0,955	832,20	0,566	94,65%
3	240	179,94	189,14	0,951	790,20	0,535	89,46%
4	240	168,94	178,39	0,947	745,10	0,502	83,95%
5	240	162,70	172,37	0,945	719,80	0,484	80,94%
6	240	157,61	167,30	0,942	698,50	0,468	78,26%
7	240	152,64	162,44	0,940	678,20	0,453	75,75%



8	240	124,52	135,05	0,922	563,50	0,367	61,37%
9	240	97,26	108,77	0,894	453,60	0,283	47,32%
10	240	70,33	83,50	0,842	348,00	0,200	33,44%
11	240	22,23	55,13	0,405	227,90	0,050	8,36%
1	250	201,40	211,40	0,953	848,20	0,598	100,00%
2	250	190,45	200,70	0,949	804,80	0,566	94,65%
3	250	180,29	190,72	0,945	764,70	0,535	89,46%
4	250	169,30	179,96	0,941	721,40	0,502	83,95%
5	250	163,17	173,69	0,938	697,20	0,484	80,94%
6	250	157,97	168,87	0,935	676,80	0,468	78,26%
7	250	153,02	164,04	0,933	657,30	0,453	75,75%
8	250	124,92	136,73	0,914	547,60	0,367	61,37%
9	250	97,73	110,50	0,884	442,30	0,283	47,32%
10	250	70,85	85,50	0,829	342,00	0,200	33,44%
11	250	22,10	56,20	0,393	224,40	0,050	8,36%







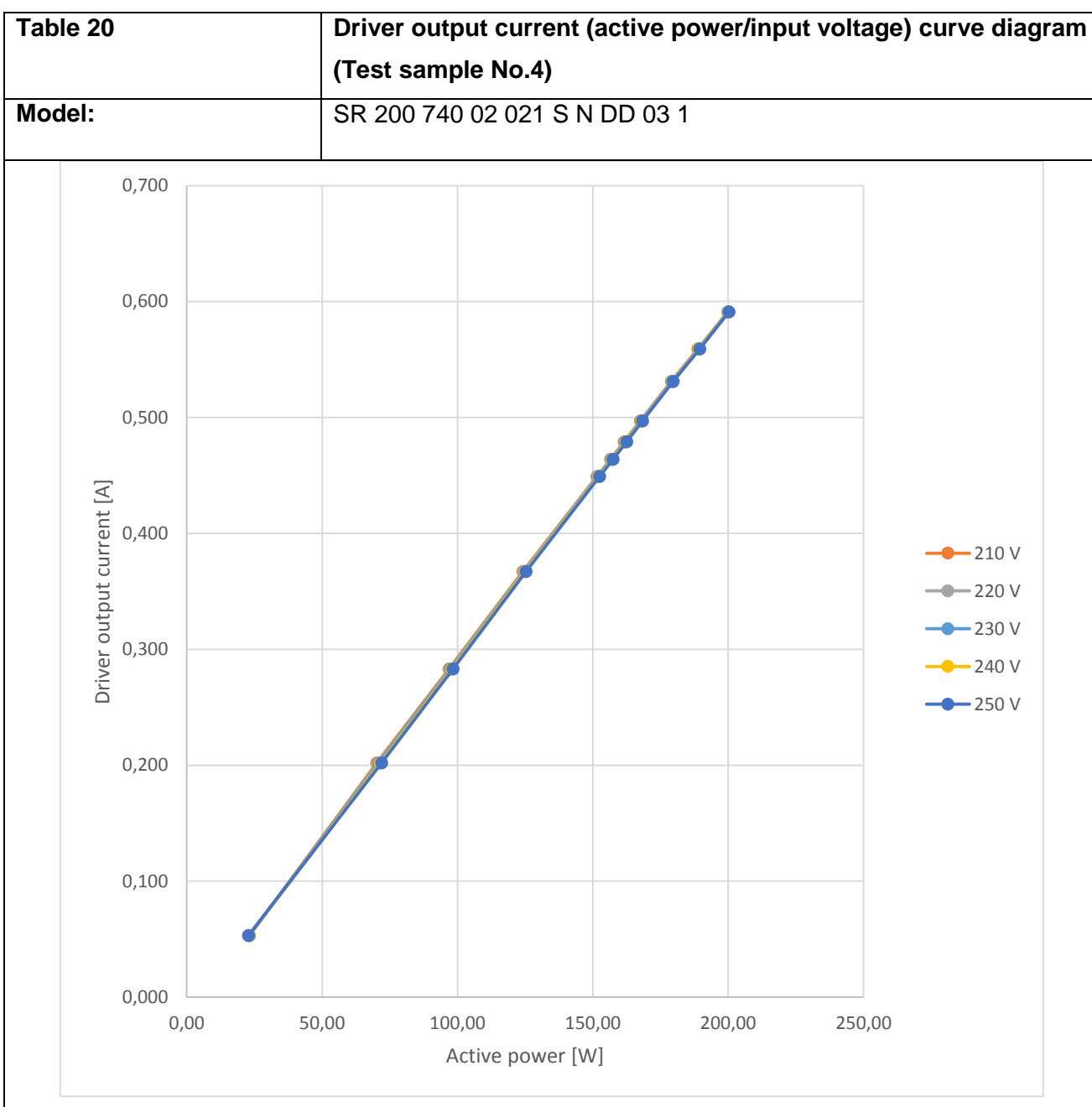




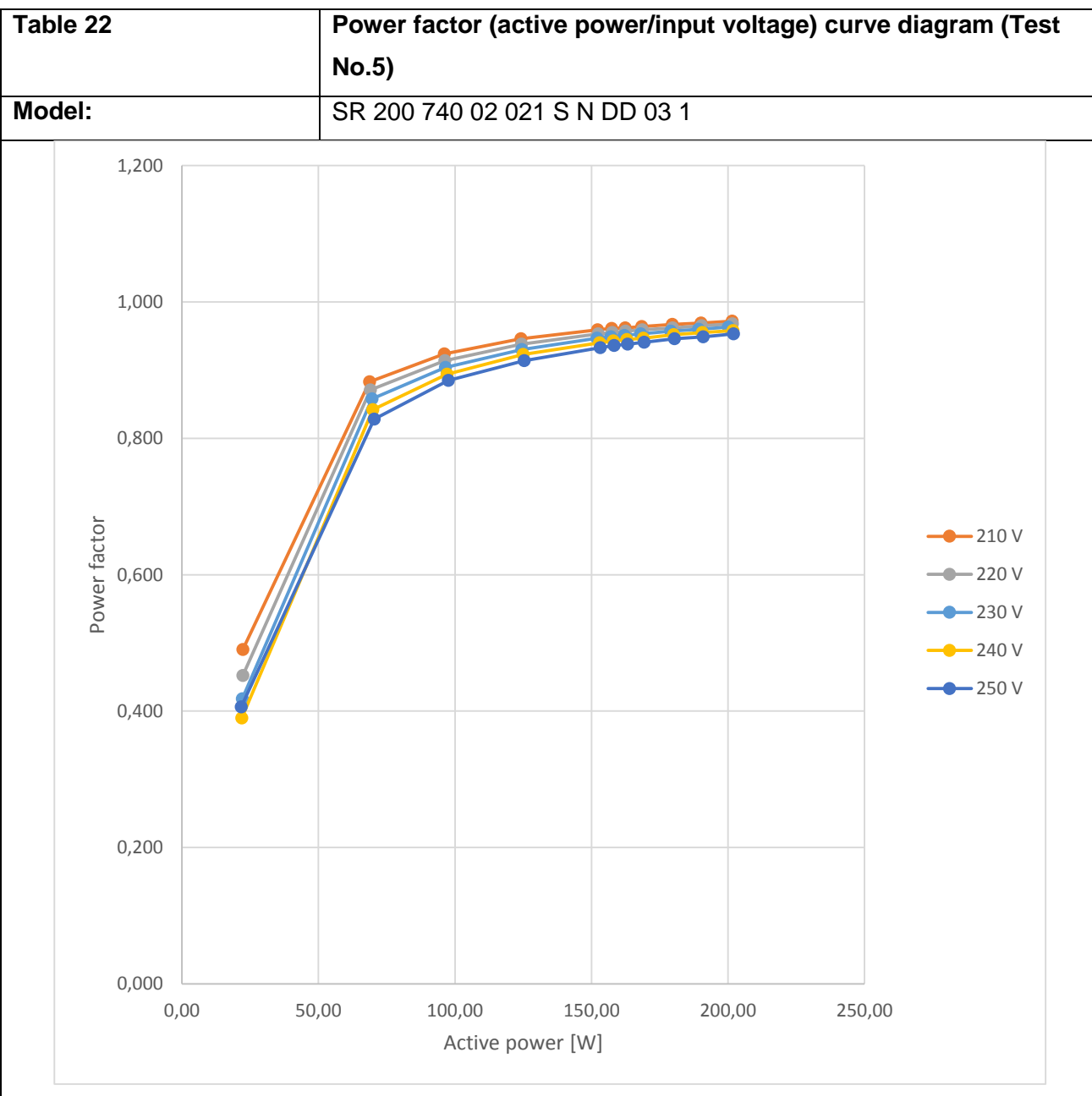
Table 21		Test data table No.4					
Model:		SR 200 740 02 021 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	200,00	207,60	0,964	905,80	0,591	100,00%
2	230	189,15	196,88	0,961	858,80	0,559	94,59%
3	230	179,25	187,17	0,958	816,50	0,531	89,85%
4	230	168,00	176,08	0,954	767,70	0,497	84,09%
5	230	162,00	170,20	0,952	742,00	0,479	81,05%
6	230	157,00	165,27	0,950	720,40	0,464	78,51%
7	230	152,03	160,43	0,948	699,20	0,449	75,97%
8	230	124,80	133,87	0,932	583,10	0,367	62,10%
9	230	97,51	107,45	0,908	467,70	0,283	47,88%
10	230	70,94	82,03	0,865	356,80	0,202	34,18%
11	230	23,00	51,34	0,448	222,60	0,053	8,97%
1	210	200,00	205,70	0,972	983,50	0,591	100,00%
2	210	188,80	194,65	0,970	930,80	0,559	94,59%
3	210	178,95	184,95	0,968	884,10	0,531	89,85%
4	210	167,57	173,72	0,965	830,10	0,497	84,09%
5	210	161,56	167,82	0,963	801,80	0,479	81,05%
6	210	156,54	162,86	0,961	778,00	0,464	78,51%
7	210	151,50	157,92	0,959	754,30	0,449	75,97%



8	210	124,17	131,12	0,947	625,80	0,367	62,10%
9	210	96,85	104,60	0,926	498,80	0,283	47,88%
10	210	70,20	78,95	0,889	376,20	0,202	34,18%
11	210	23,17	45,75	0,507	217,70	0,053	8,97%
1	220	199,84	206,40	0,968	942,00	0,591	100,00%
2	220	188,90	195,65	0,965	892,60	0,559	94,59%
3	220	179,07	185,96	0,963	848,20	0,531	89,85%
4	220	167,70	174,77	0,960	796,90	0,497	84,09%
5	220	161,71	168,88	0,958	777,00	0,479	81,05%
6	220	156,69	163,95	0,956	747,30	0,464	78,51%
7	220	151,66	159,01	0,954	724,70	0,449	75,97%
8	220	124,36	132,36	0,940	602,80	0,367	62,10%
9	220	97,13	105,93	0,917	482,10	0,283	47,88%
10	220	70,53	80,43	0,877	365,70	0,202	34,18%
11	220	23,11	48,99	0,481	222,80	0,053	8,97%
1	240	200,10	208,70	0,959	872,40	0,591	100,00%
2	240	189,25	198,06	0,956	827,60	0,559	94,59%
3	240	179,44	188,41	0,952	787,10	0,531	89,85%
4	240	168,13	177,33	0,948	740,70	0,497	84,09%
5	240	162,18	171,50	0,946	716,20	0,479	81,05%
6	240	157,15	166,58	0,943	695,60	0,464	78,51%
7	240	152,17	161,72	0,941	675,20	0,449	75,97%



8	240	124,97	135,22	0,924	564,20	0,367	62,10%
9	240	97,92	109,06	0,898	454,40	0,283	47,88%
10	240	71,45	84,12	0,849	350,60	0,202	34,18%
11	240	22,93	53,35	0,429	222,40	0,053	8,97%
1	250	200,30	210,10	0,953	842,60	0,591	100,00%
2	250	189,51	199,49	0,950	800,00	0,559	94,59%
3	250	179,70	189,86	0,946	761,30	0,531	89,85%
4	250	168,41	178,82	0,942	716,80	0,497	84,09%
5	250	162,48	173,01	0,939	693,40	0,479	81,05%
6	250	157,46	168,11	0,937	673,70	0,464	78,51%
7	250	152,50	163,26	0,934	654,20	0,449	75,97%
8	250	125,35	136,83	0,916	548,00	0,367	62,10%
9	250	98,38	110,78	0,888	443,40	0,283	47,88%
10	250	71,95	86,09	0,836	344,40	0,202	34,18%
11	250	22,73	55,68	0,409	223,10	0,053	8,97%



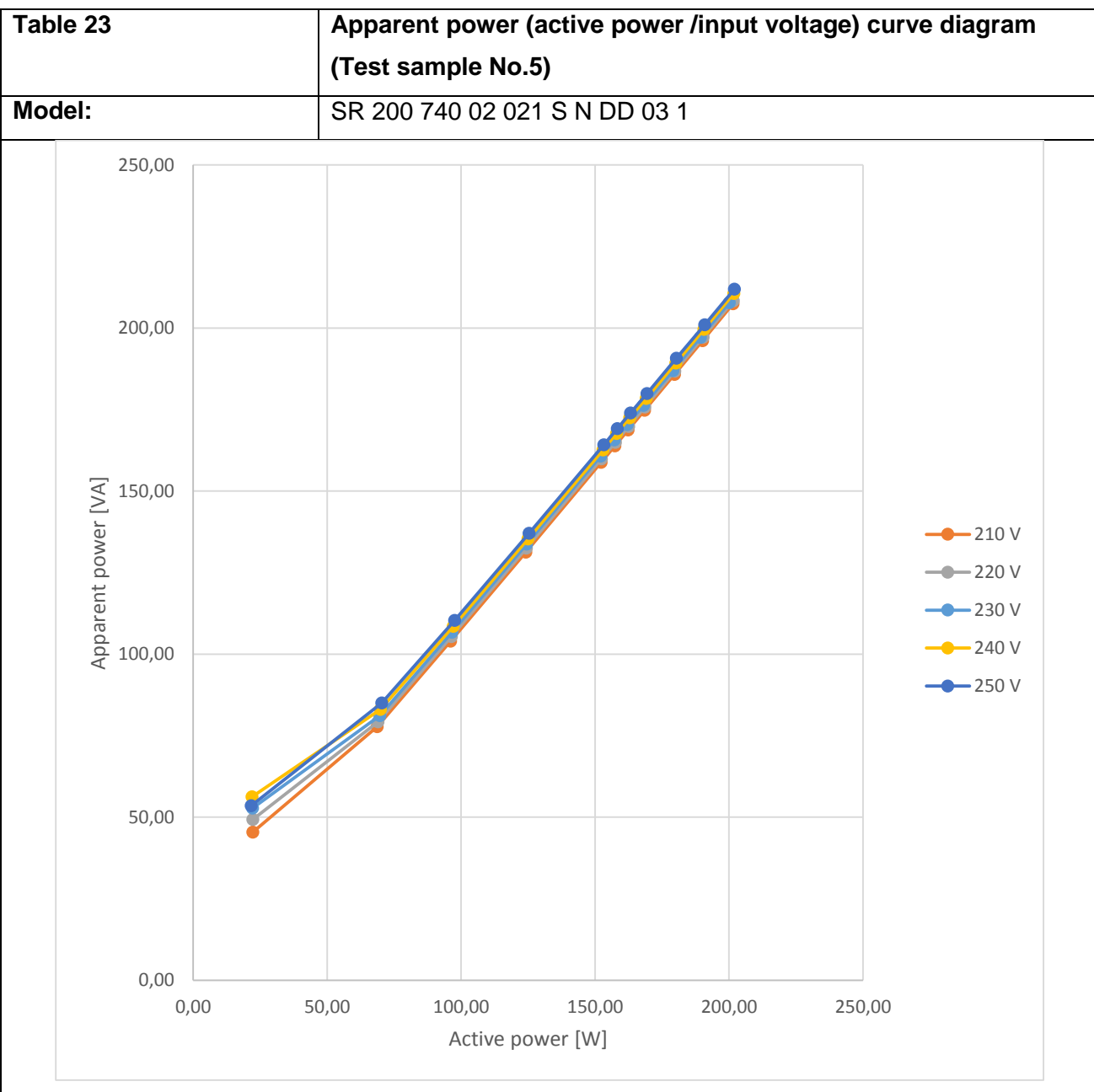
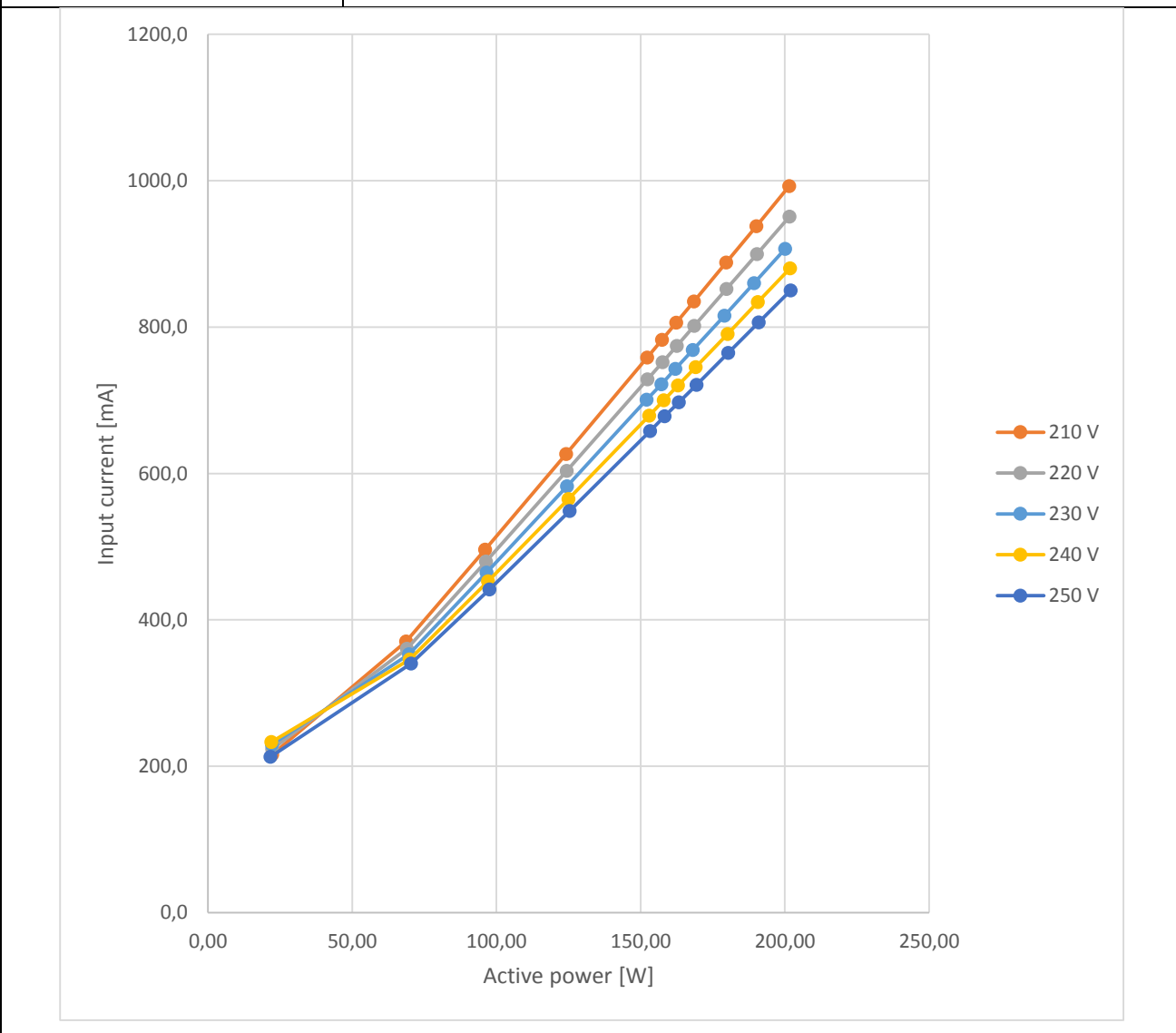




Table 24	Input current (active power /input voltage) curve diagram (Test sample No.5)
-----------------	---

Model:	SR 200 740 02 021 S N DD 03 1
---------------	-------------------------------



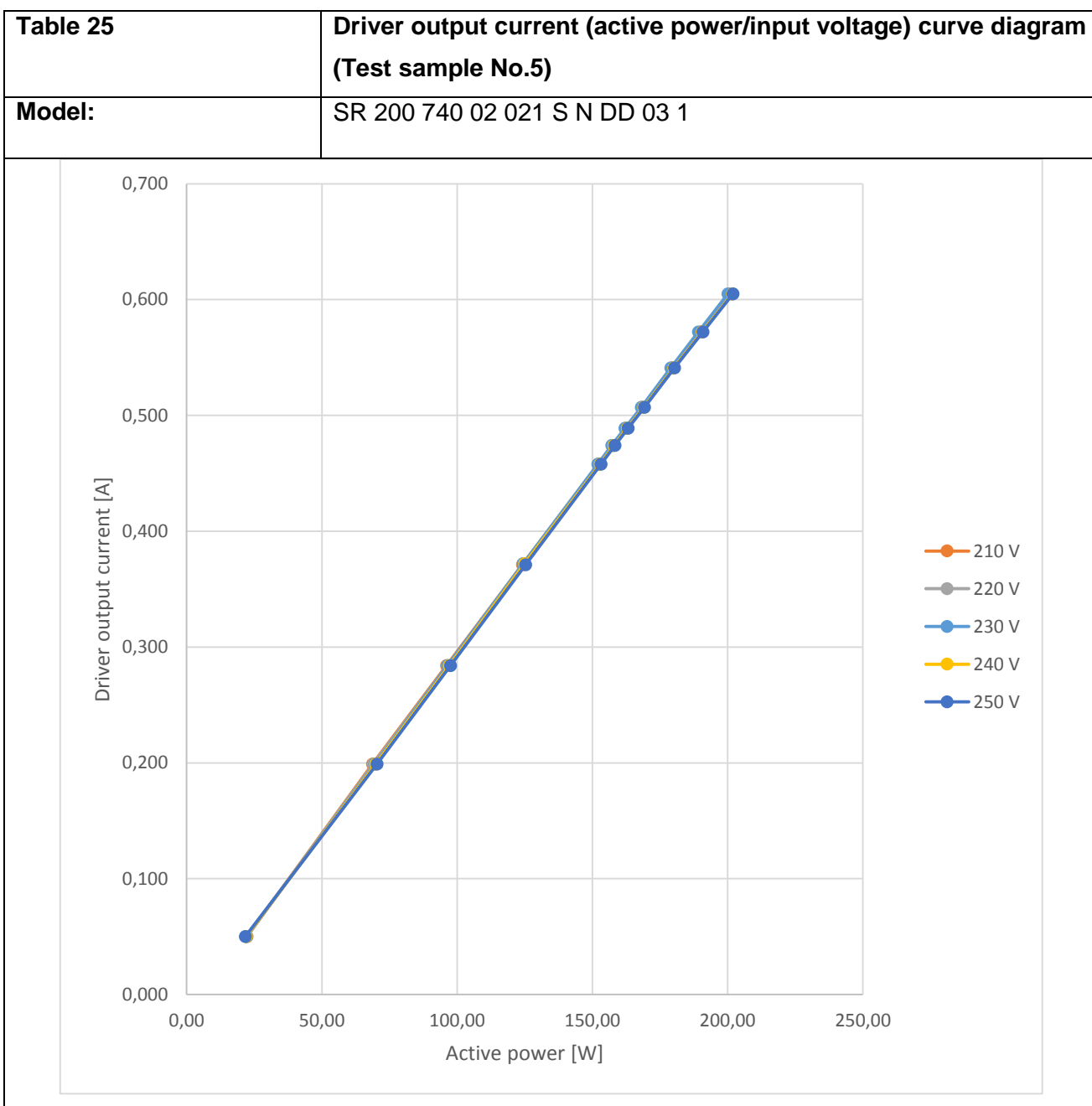




Table 26		Test data table No.5					
Model:		SR 200 740 02 021 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	200,10	207,80	0,963	906,9	0,605	100,00%
2	230	189,25	197,13	0,960	860,0	0,572	94,55%
3	230	179,00	186,95	0,957	815,3	0,541	89,42%
4	230	168,03	176,28	0,953	768,6	0,507	83,80%
5	230	162,00	170,37	0,951	742,7	0,489	80,83%
6	230	157,12	165,62	0,949	721,9	0,474	78,35%
7	230	152,03	160,68	0,947	700,7	0,458	75,70%
8	230	124,39	133,70	0,930	582,2	0,372	61,49%
9	230	96,49	106,70	0,904	464,4	0,284	46,94%
10	230	69,61	81,10	0,858	352,8	0,199	32,89%
11	230	22,08	52,78	0,418	229,4	0,050	8,26%
1	210	201,50	207,40	0,972	992,4	0,605	100,00%
2	210	190,13	196,12	0,969	937,9	0,572	94,55%
3	210	179,60	185,73	0,967	887,9	0,541	89,42%
4	210	168,42	174,72	0,964	835,0	0,507	89,42%
5	210	162,31	168,70	0,962	806,0	0,489	80,83%
6	210	157,36	163,82	0,961	782,6	0,474	78,35%
7	210	152,21	158,77	0,959	758,3	0,458	75,70%



8	210	124,11	131,25	0,946	626,4	0,371	61,32%
9	210	96,03	103,98	0,924	495,9	0,284	46,94%
10	210	68,65	77,72	0,883	370,4	0,199	32,89%
11	210	22,24	45,40	0,490	216,1	0,050	8,26%
1	220	201,60	208,30	0,968	950,7	0,605	100,00%
2	220	190,26	197,14	0,965	899,4	0,572	94,55%
3	220	179,70	186,75	0,962	851,8	0,541	89,42%
4	220	168,57	175,78	0,959	801,5	0,507	83,80%
5	220	162,46	169,77	0,957	774,0	0,489	80,83%
6	220	157,52	164,91	0,955	751,8	0,474	78,35%
7	220	152,37	159,87	0,953	728,6	0,458	75,70%
8	220	124,33	132,51	0,938	603,5	0,372	61,49%
9	220	96,32	105,37	0,914	479,5	0,284	46,94%
10	220	68,98	79,22	0,871	360,3	0,199	32,89%
11	220	22,24	49,28	0,452	223,5	0,050	8,26%
1	240	201,80	210,60	0,958	880,3	0,605	100,00%
2	240	190,62	199,57	0,955	834,0	0,572	94,55%
3	240	180,07	189,21	0,952	790,5	0,541	89,42%
4	240	169,00	178,38	0,947	745,1	0,507	83,80%
5	240	162,92	172,43	0,945	720,0	0,489	80,83%
6	240	158,00	167,63	0,943	700,0	0,474	78,35%
7	240	152,88	162,60	0,940	678,9	0,458	75,70%



8	240	124,93	135,30	0,923	564,9	0,372	61,49%
9	240	97,08	108,54	0,894	452,6	0,284	46,94%
10	240	69,88	83,02	0,842	345,9	0,199	32,89%
11	240	21,93	56,23	0,390	233,0	0,050	8,26%
1	250	202,00	211,90	0,953	850,1	0,605	100,00%
2	250	190,89	201,00	0,949	806,3	0,572	94,55%
3	250	180,34	190,70	0,946	764,6	0,541	89,42%
4	250	169,29	179,89	0,941	721,1	0,507	83,80%
5	250	163,22	173,95	0,938	697,2	0,489	80,83%
6	250	158,31	169,16	0,936	677,9	0,474	78,35%
7	250	153,20	164,15	0,933	657,8	0,458	75,70%
8	250	125,30	137,01	0,914	548,8	0,371	61,32%
9	250	97,56	110,30	0,885	441,5	0,284	46,94%
10	250	70,38	85,00	0,828	340,0	0,199	32,89%
11	250	21,65	53,51	0,406	212,6	0,050	8,26%