



Łukasiewicz – IMiF
PREDOM Division
Krakowiaków 53, 02-255 WARSAW
POLAND

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LICENCE / CERTIFICATE

to use the European Mark

LICENCJA / CERTYFIKAT

na używanie europejskiego Znak



Licence / Certificate No.

Licencja / Certyfikat Nr

0340/ENEC/24

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Name and address of the Certificate owner:

Nazwa i adres posiadacza Certyfikatu:

LUG Light Factory Sp. z o.o.

ul. Gorzowska 11; 65-127 Zielona Góra Poland

For the products:

Dla wyrobów:

Luminaires for road and street lighting

Oprawy oświetleniowe drogowe i uliczne

Manufacturing place:

Miejsce produkcji:

LUG Light Factory Sp. z o.o.

ul. Gorzowska 11; 65-127 Zielona Góra Poland

Trade name:

Znak towarowy:

LUG

Type(s)/Model(s):

Typ(y), model(e):

Luminaires for road and street lighting

Traffik LED & Traffik R LED - cl I series

(details in the Appendix / Szczegóły w Załączniku)

Complying with the following European Standards:

Zgodnymi z następującymi normami europejskimi:

EN 60598-2-3:2003

EN 60598-2-3:2003/ A1:2011

EN 60598-1:2021

EN 60598-1:2021/A11:2022

EN 62262:2002

Test report(s):

Raporty z badań:

Ref No: B5-3/244/B/23 + Att No. 1 (EU GD and ND) rep. B5-3/244/B/1/23 dated

11.01.2024; B5-3/246/B/23 dated 10.01.2024 performed by the Testing Laboratory

Łukasiewicz-IMiF PREDOM Division (Accreditation PCA AB 003)

Date:

Data:

2024-01-12

Manager of Certification Office
Kierownik Biura Certyfikacji

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Additional information – see the Appendix. Dodatkowe informacje – patrz Załącznik.

Name and address of the license holder:	LUG Light Factory Sp z o.o. ul. Gorzowska 11; 65-127 Zielona Góra - Poland					
Name and address of manufacturer:	LUG Light Factory Sp z o.o. ul. Gorzowska 11; 65-127 Zielona Góra - Poland					
Name and address of manufacturing place:	LUG Light Factory Sp z o.o. ul. Gorzowska 11; 65-127 Zielona Góra - Poland					
Name of product:	Traffik LED & Traffik R LED– cl I series					
Trade mark :	LUG					
Technical data:						
Rated voltage	220-240V					
Rated frequency:	50/60Hz					
Protection against electric shock:	Class I					
Degree of protection:	IP66; IK08					
ta	LED Type	LED quantity	Pmin [W]	Pmax [W]	Ta max[°C]	
	Hi-Power	12	4	33	+55	
	Hi-Power	24	7	60	+50	
	Hi-Power	36	10	78	+50	
	Hi-Power	48	14	90	+45	
	Mid-Power (3030)	24	4	33	+55	
	Mid-Power (3030)	48	7	60	+50	
	Mid-Power (3030)	72	10	78	+50	
	Mid-Power (3030)	96	14	90	+45	
	Mid-Power (5050)	12	4	33	+55	
	Mid-Power (5050)	24	7	60	+50	
	Mid-Power (5050)	36	10	78	+50	
	Mid-Power (5050)	48	14	90	+45	

Choice sheet of the luminaires Traffik LED & Traffik R LED– cl I series:

Example of symbol (Marking):

130292.5LR7B30S320.101.N.P.R

1 2 3 4 5 6 7 8 9

APPENDIX TO THE LICENCE/CERTIFICATE No. 0340/ENEC/24
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Designations used on the marking of luminaries (some designation may not appear in the name) :

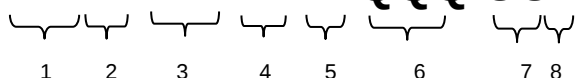
1. 13029	- Code of the series 13029- Traffik LED 13087- Traffik LED - Hi-Power XPG3 13088- Traffik LED - Mid-Power 3030 13089- Traffik LED - Mid-Power 5050
2. 2	- Color: 1: black 2: grey 5: graphite 0: another
3. 5L	- Type of power supply: 2L - DIMM 1-10V 3L - DALI 5L - on-off 6L - on-off / DALI 7L - ZHAGA D4i PL - programmable
4. R7	- CRI: R7 = 70-79 R8 = 80-89
5. B30	- Color temperature (±50K): B18 = 1800K B22 = 2200K B27 = 2700K B30 = 3000K B40 = 4000K B57 = 5700K B65 = 6500K
6. S320	- Max. luminous flux (e.g. S320 = 3200lm)
7. 1	- 1 - Safety Class I
8. 01	- Optic: 01 01 - for road lighting type O1 02 02 - for road lighting type O2 ... 99 099 - for road lighting type O99 MKxx - xx 00 ...99 - for investment optic
9. N.P	- Additional equipment A - additional corrosion protection B - Tool-free access to the LED Driver N - NEMA Socket Z - ZHAGA Socket T - NTC Sensor W - Twilight Sensor V - Surge Device Protector 10kV Y - Surge Device Protector 20kV P - Anti pressure vent R - Traffik R LED (Regulate bracket)

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List of components:

ANNEX 1		TABLE: Critical components information					P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Luxeon 5050 modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC	

Example of symbol:

ML21XXXYY.WQQQ.UUV



Designations used on the marking of LED boards:

- | | |
|---------------|--|
| 1. ML | - PCB designation (ML – LED module) |
| 2. 21 | - Year of the project
19, 20, 21 |
| 3. XXX | - Number of the project:
660, 661, 662, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693 |
| 4. YY | - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration):
00...99 |
| 5. W | Light color:
W: White |
| 6. QQQ | - CRI and CCT:
718: CRI 70 and 1800K
722: CRI 70 and 2200K
727: CRI 70 and 2700K
730: CRI 70 and 3000K
735: CRI 70 and 3500K
740: CRI 70 and 4000K
750: CRI 70 and 5000K
757: CRI 70 and 5700K
765: CRI 70 and 6500K
818: CRI 80 and 1800K
822: CRI 80 and 2200K
827: CRI 80 and 2700K
830: CRI 80 and 3000K
835: CRI 80 and 3500K
840: CRI 80 and 4000K
850: CRI 80 and 5000K
857: CRI 80 and 5700K
865: CRI 80 and 6500K |
| 7. UU | - Assembly variant (selected components not mounted):
01...99 |
| 8. V | - NTC Thermistor type:
A - none
B – 10K
C – 47K |

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LED Modules	A	LUG	ML21XXYY.WQQQ.UUV Cree XPG3 modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC
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Example of symbol:

ML21XXYY.WQQQ.UUV

1

2

3

4

5

6

7

8

Designations used on the marking of LED boards:

1. ML

2. 21

3. XXX

4. YY

5. W

6. QQQ

7. UU

8. V

- PCB designation (ML – LED module)

- Year of the project
12, 13, 14, 15, 16, 17, 18, 19, 20, 21

- Number of the project:
600, 601, 610, 611, 001, 002, 003, 004, 005, 008, 009, 010, 013, 014, 017, 020, 023, 024, 182, 193, 271, 272, 273, 281, 506, 513

- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration):
00...99

- Light color:
W: White

- CRI and CCT:
718: CRI 70 and 1800K
722: CRI 70 and 2200K
727: CRI 70 and 2700K
730: CRI 70 and 3000K
735: CRI 70 and 3500K
740: CRI 70 and 4000K
750: CRI 70 and 5000K
757: CRI 70 and 5700K
765: CRI 70 and 6500K
818: CRI 80 and 1800K
822: CRI 80 and 2200K
827: CRI 80 and 2700K
830: CRI 80 and 3000K
835: CRI 80 and 3500K
840: CRI 80 and 4000K
850: CRI 80 and 5000K
857: CRI 80 and 5700K
865: CRI 80 and 6500K

- Assembly variant (selected components not mounted):
01...99

- NTC Thermistor type:
A - none
B – 10K
C – 47K

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LED Modules	A	LUG	ML21XXXXYY.WQQQ.UUV Duris S8 modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC
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Example of symbol:

ML21XXXXYY.WQQQ.UUV

1 2 3 4 5 6 7 8

Designations used on the marking of LED boards:

1. ML	- PCB designation (ML – LED module)
2. 21	- Year of the project 19, 20, 21
3. XXX	- Number of the project: 241, 510
4. YY	- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99
5. W	Light color: W: White
6. QQQ	- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K
7. UU	- Assembly variant (selected components not mounted): 01...99
8. V	- NTC Thermistor type: A - none B – 10K C – 47K

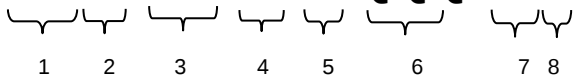
LED Modules	A	LUG	ML21XXXXYY.WQQQ.UUV Luxeon 3030 modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC
Example of symbol:						
ML21XXXXYY.WQQQ.UUV 1 2 3 4 5 6 7 8						
Designations used on the marking of LED boards:						
1. ML			- PCB designation (ML – LED module)			
2. 21			- Year of the project 18, 19, 20, 21			
3. XXX			- Number of the project: Luxeon 3030 – 222, 320			
4. YY			- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99			
5. W			Light color: W: White			
6. QQQ			- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K			
7. UU			- Assembly variant (selected components not mounted): 01...99			
8. V			- NTC Thermistor type: A - none B – 10K C – 47K			

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LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Cree XTE modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC
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Example of symbol:

ML21XXXYY.WQQQ.UUV



Designations used on the marking of LED boards:

1. ML	- PCB designation (ML – LED module)
2. 21	- Year of the project 14, 15
3. XXX	- Number of the project: 003, 010
4. YY	- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99
5. W	Light color: W: White
6. QQQ	- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K
7. UU	- Assembly variant (selected components not mounted): 01...99
8. V	- NTC Thermistor type: A - none B – 10K C – 47K

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Control gear	A	OSRAM	OT100W/UNV/800C/2DIMLT2/P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170-240/1A0 1DIM LT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 40/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 75/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 110/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC

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Control gear	A	OSRAM	OT 40/120...277/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 60/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 90/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 50/120...277/800 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 50/120...277/1A2 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/120...277/800 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 110/120...277/1A4 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 60/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 75/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/ 220-240/1A4 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	

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LED Driver	A	OSRAM	IT DALI 20/220...240/1A0 E	220...240 V/50/60Hz, Ta = -40...+60 °C, Tc max = 75 °C	Acc. to EN 61347-1/Acc. to EN 61347-2- 13/Acc. to EN	CE / CCC / EAC / RCM / VDE / VDE-EMC / UKCA /
					55015/Acc. to EN 61547/Acc. to EN 61000-3- 2/Acc. to EN 62384/Acc. to EN 62386	DALI-2 / ENEC
LED Driver	A	OSRAM	IT DALI 40/220...240/1A0 E	220...240 V/50/60Hz, Ta = -40...+60 °C, Tc max = 85 °C	EN 61347-2-13, EN 61347-1	VDE, ENEC10
LED Driver	A	OSRAM	IT DALI 75/220...240/1A0 E	220...240 V/50/60Hz, Ta = -40...+60 °C, Tc max = 100 °C	EN 61347-2-13	VDE, ENEC10
LED Driver	A	OSRAM	IT DALI 110/220...240/1A0 E	220...240 V/50/60Hz, Ta = -40...+60 °C, Tc max = 90 °C	EN 61347-2-13, EN 61347-1	VDE, ENEC10
LED Driver	A	OSRAM	IT DALI 150/220...240/1A0 E	220...240, 50/60Hz, Ta = -40...+55 °C, Tc max = 85 °C	Acc. to EN 61347-1/Acc. to EN 61347-2- 13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3- 2/Acc. to EN 62384/Acc. to EN 62386	CCC / CE / RCM / EAC / UKCA / DALI-2 / VDE / VDE- EMC / ENEC
LED Driver	A	OSRAM	IT DALI 200/220...240/1A0 E	220...240, 50/60Hz, Ta = -40...+60 °C, Tc max = 75 °C	Acc. to EN 61347-1/Acc. to EN 61347-2- 13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3- 2/Acc. to EN 62384/Acc. to EN 62386	CCC / CE / RCM / EAC / UKCA / DALI-2 / VDE / VDE- EMC / ENEC
LED Driver	A	Osram	OT 75 /220...240/1A0 1DIM G2 CE	220...240V, 50/60Hz, Ta = -40...+55 °C, Tc max = 85 °C	EN 61347-2-13, EN 61347-1	CE / ENEC / VDE / VDE-EMC / CCC / EAC ENEC 10 VDE

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Control Gear	A	OSRAM	OT 50/120...277/700 P5	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	CB by Dekra
Control Gear	A	OSRAM	OT 100/120...277/700 P5	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	CB by Dekra
Control Gear	A	OSRAM	OT 100/220...240/4A2 P5	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	CB certyfikat
Control Gear	A	OSRAM	OT 20/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 40/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 40/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 75/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 75/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 75/170...240/1A5 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 110/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 110/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT DX 40/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT DX 75/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT DX 110/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
LED Driver	A	OSRAM	IT DALI 20/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+70°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 40/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC

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LED Driver	A	OSRAM	IT DALI 75/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 110/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 150/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 200/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	B	OSRAM	OT 20/170...240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 40/170-240/0A7 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 40/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 75/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 110/170-240/0A7 1DIM NFC G3	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE

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Control gear	B	OSRAM	OT 110/170-240/1A0 1DIM NFC G3	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	A	Inventronics	EBS-025S045BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-025S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-025S105BT2	171..275V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S045BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S105BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-080S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1	ENEC
Control gear	A	Inventronics	EBS-080S105BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-080S150BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-120S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-120S105BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-120S150BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM-075S	90..305V, 50-60Hz, ta= -40...+80°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 100S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 150S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC

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Control gear	A	Inventronics	EUM – 200S	100..277V, 50-60Hz, ta= -40...+75°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Inventronics	EUM – 240S	100..277V, 50-60Hz, ta= -40...+75°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 40W 0.7A Prog+ GL-J sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.35-0.70A GL Prog+ sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.1-1.05A Prog GL F sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 100W 0.7A Prog+ GL-Z sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 12W 0.1-0.5A S 230V C100	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 22W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 40W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 40W 0.3-1.0A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	

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Control gear	A	Philips	Xi LP 40W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.5-1.5A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 110W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 110W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.2-0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2 -0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2-0.7A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.3-1.0A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2-0.7A SN 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

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Control gear	A	Philips	Xi LP 75W 0.2-0.7A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.2-0.7A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.3-1.0A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.3-1.0A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.2-0.7A SN 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.5-1.5A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 70W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

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Control gear	A	Philips	Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 110W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	

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Control gear	A	Philips	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 100W 2.1-4.2A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 150W 2.5-4.9A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 100W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 150W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 35W 0.7A 1-10V TWE I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 100W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 150W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.7A TWE I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

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Control gear	A	Philips	Xitanium 150W 0.7A TWE I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 1.05A 1-10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.70A 1-10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 75W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
Control gear	A	Philips	Xitanium Dim 150W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
Control gear	A	Philips	Xitanium 75W 1-10V 230V C165	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 150W 1.05A 1-10V 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 120W 300-1050mA	220..240V, 50-60Hz, ta= -30...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 75W 250-750mA one	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 120W 350-1050mA o	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 160W 350-1050mA o	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 14/100-500/38 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 24/200-1050/39 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 40/200-1050/64 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	

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Control gear	A	Tridonic	LCO 60/200-1050/100 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 90/200-1050/165 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 135/200-1050/220 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 14/100-500/38 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 24/200-1050/39 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 40/200-1050/64 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 60/200-1050/100 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=95°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 90/200-1050/165 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 135/200-1050/220 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 200/200-1050/355 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 100/1050/95 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 100/1400/71 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 100/500/200 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

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Control gear	A	Tridonic	LCO 100/700/143 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/1050/142 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/1400/107 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/500/300 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/700/214 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/1050/72 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/1400/53 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/500/150 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/700/108 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 14W 100–550mA 38V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=95°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 24W 200–1050mA 39V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control Gear	A	Tridonic	LCO 40W 200–1050mA 64V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=950C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Tridonic	LCO 60W 200–1050mA 100V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=950C	EN 61347-1, EN 61347-2-13	ENEC

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Control gear	A	Tridonic	LCO 90W 200–1050mA 165V pD+ NFC C PRE3	220...240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=95°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 135W 200–1050mA 220V pD+ NFC C PRE3	220...240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control Gear	A	Tridonic	LCO 165W 200–1050mA 285V pD+ NFC C PRE3	220...240V, 50-60Hz, ta= -40...+65°C, tc max=95°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Tridonic	LCO 165W 200–1050mA 285V one4all NFC C EXC3	220...240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1, EN 61347-2-13	ENEC
LED Driver	A	LACROIX	DL-PAK 70	220...240 50/60Hz, Ta =-25...+60 °C, Tc max =90 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-040105GLA	220...240 V/50/60Hz, Ta=-40...+60 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-075105GLA	220...240 V/50/60Hz, Ta=-40...+55 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-130105GLA	220...240 V/50/60Hz, Ta=-40...+55 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-170105GLA	220...240 V/50/60Hz, Ta=-40...+55 °C, Tc max =90 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	Delta	EUCI-022105GLB	220...240V, 50/60Hz, Ta=-40...+55 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	Delta	EUCI-040105GLB	198...264V, 50/60Hz, Ta=-40...+55 °C, Tc max =90 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	Delta	EUCI-075105GLB	220...240 V/50/60Hz, Ta=-40...+55 °C, Tc max = 85 °C	EN 61347-2-13, EN 61347-1	ENEC

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Control Gear	A	Delta	EUCI 040105GIA	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Delta	EUCO 150140GA	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Delta	EUCO 200140GA	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-50VP-72BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-75VP-108BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-100VP-143BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-150VP-215BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-22PA- 32B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-40PA-54B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-75PA-108B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-110PA-160B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-165PA-235B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-40PA-57F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-75PA-178F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-110PA-160F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-165PA-236F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC

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Control Gear	A	Pelsan	316646 150W	220..240V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moon	MU240HxxxAQ_DALI2 Series	220..240V, 50-60Hz, ta= -40...+50°C, tc max=90°C	EN 61347-1, EN 61347-2-13	UL
Control Gear	A	ELDO LED	OT50W/UNV/800C/2DIMLT2/P6	120..277V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	UL
Control Gear	A	Moso	U6-040D057	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U6-080D115	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U6-120D172	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-026D038	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-040D057	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-060D086	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-080D115	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-120D172	220..240V, 50-60Hz, ta= -40...+50°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	LUP 120	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	LUP 150	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	LUP 200	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-040	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-075	176..264V, 50-60Hz, ta= -40...+90°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC

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Control Gear	A	uPowerTek	APD-110	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-165	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-200	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-060	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-075	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-096	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-120	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 75W/200-1050 AD	220..240V, 50-60Hz, ta= -40...+550C, tc max=850C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 20W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 40W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 75W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 110W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 165W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 20W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 40W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 75W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC

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Control Gear	A	TCI	MILANOinLED 110W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 165W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	VEGA 75/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	VEGA 105/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	VEGA 150/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 22W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 40W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 75W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 110W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 165W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 22W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 40W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 75W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 110W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 22W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 40W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC

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Control Gear	A	TCI	SIRIO SQ 75W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 110W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 165W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.639	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.640	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PrimeLine ECXd1050.659	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.641	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.642	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Wires LED	B	Mrowiec	H05V-K	500 V; 1 mm ²	IEC227	SEP-BBJ
Internal wires	B	Mrowiec	H05V-K	500 V; 0,5 mm ²	IEC227	SEP-BBJ
Wires	B	Mrowiec	H05VV-F	2X1,5mm ²	IEC227	SEP-BBJ
Connector	B	LONGJOIN	JL-700	1.5A, 30V	EN5015:2013+ A1:2015, EN61547:2009, EN 61000-3- 2:2014, EN 61000-3- 3:2013, EN 61984:2009	Dekra
Connector system	B	BJB	47.121.-303.93, 47.121.-305.80, 47.121.-702.14, 47.121.-705.84, 47.121.U301.80, 47.121.U303.80, 47.121.U304.80, 47.921.-801.68, 47.921.- 802.68, 47.921.U801.81	2A, 24V DC, ta= -40°C to 100°C	EN 61984	VDE
Connector	B	BJB	46.412	16A; 450 V	DIN EN 60998- 1 (VDE 0613 Teil 1):2005-03; EN 60998- 1:2004; DIN EN 60998-2-2 (VDE 0613 Teil 2- 2):2005-03; EN 60998-2-2:2004	VDE UL
Connector	B	BJB	46.413	16A; 450 V	EN 60998-2-2	VDE UL
Connector	B	BJB	46.414	16A; 450 V	EN 60998-2-2	VDE UL
Connector	B	BJB	46.415	16A; 450 V	EN 60998-2-2	VDE UL

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Connector	B	BJB	46.455	16A; 450 V	EN 60998-2-2	VDE UL
Connector	B	TE Connectivity	2834049 2834048 2834055 2834054	9A; 600 V	EN 61984	TUV
Connector	A	Greenway Electronics Co Ltd	M684	16A; 450 V	EN 61984, EN 60988-1,	ENEC
Luminaire protection	B	Linoya Electronic Technology	LYSPD10D	300Vac, 50Hz, IP67	EN 61643- 11:2012+A11	TUV
Luminaire protection	B	Vossloh schwabe	SP / 230 / 10K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 60598-2-3 EN 61643-11	VDE
Luminaire protection	B	Vossloh schwabe	SP3 / 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection	B	Vossloh schwabe	SPC 3 / 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection	B	Vossloh schwabe	SPC 3 / 230 / 10K / i-IP66	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Fixed resistor	B	Uniroyal Electronics	MGR series	100k Ohm to 100 MOhm (+5%), 2W, 2,5kV	DIN EN IEC 62368-1 (VDE 0868-1):2021- 05 Anhang/Annex G.10; EN IEC 62368- 1:2020+A11:20 20 Anhang/Annex G.10 IEC 62368-1:2018, Anhang/Annex G.10	VDE
Connector	B	Jiang Men Krealux Electrical	P02-M	17,5A; 450 V	EN 60988-1 EN 60998-2-2	VDE
Connector	A	Openwise	925	16A; 450 V	EN 60988-1 EN 60998-2-2	ENEC
Connector	A	Openwise	928	32A; 450 V	EN 60988-1 EN 60998-2-2	ENEC
Connector system	B	LONGJOIN Nema	JL-240	t= -40...+70°C, 480VAC, 50/60Hz, Signal Contacts: 30VDC, 0,25A	EN 61984	DEKRA
Connector system	B	Tridonic	SPD 10kV CE SNC	100-277V, 50/60Hz, Ta = -40°C do 80°C	EN 61643-11	KEMA KEUR
Luminaire protection	B	Vossloh schwabe	SPC 230/10K/i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 61643-11	DEKRA
Luminaire protection	B	Inventronics	PU-20KX10KTXX	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Inventronics	PU-20Kx10KBx	320Vac, 15A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Inventronics	PU-10Kx05KBx	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Linoya Electronic Technology	LYSPD10D	300Vac, 50Hz, IP67	EN 61643-11	TUV
Luminaire protection	B	ESB	ESB-6K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 61643-11	VDE
Fuse holder	B	Mersen	CCR101N	400-500 VAC, 25-32 A	IEC60947-3 IEC60269-2 IEC60269-3	NF

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Luminaire protection	B	RuiLongYuan	TP10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Greenway	GSPD 1	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Greenway	GSPD 3	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	LINOYA	LYSPD10A	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	UL
Luminaire protection	B	ZP Lightning	ZP-LSP10-PL	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	UL
Luminaire protection	B	ZP Lightning	ZP-LED-P10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LED-S10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-PR	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-PY/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-SR	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-SY/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Zhongyuan Technology	ZYS-P10WD, ZYS-P20WD	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Zhongyuan Technology	ZYS-P10SD, ZYS-P20SD, ZYS-P10SD/II, ZYS-P20SD/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV

Supplementary information:
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.
The codes above have the following meaning:
A - The component is replaceable with another one, also certified, with equivalent characteristics
B - The component is replaceable if authorised by the test house
C - Integrated component tested together with the appliance
D - Alternative component

Date: Data: **2024-01-12** **Signature:**

Manager of Certification Office
Kierownik Biura Certyfikacji