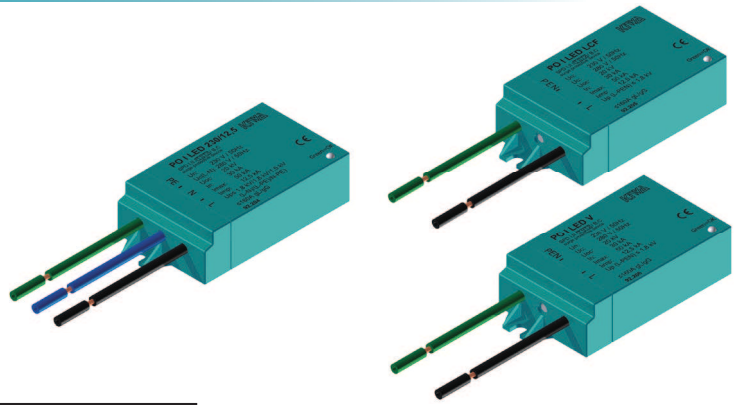
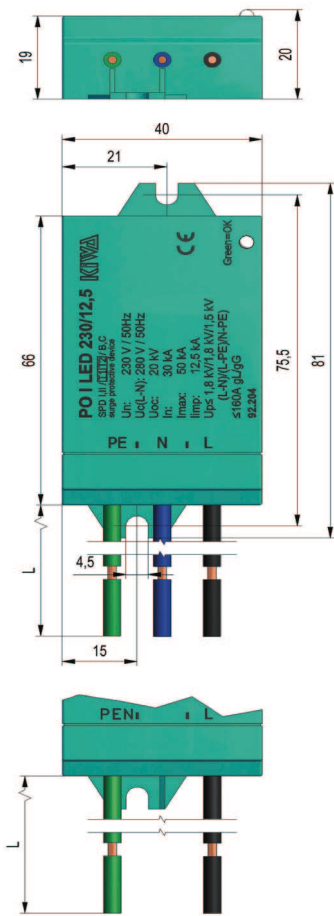


PO I LED, PO I LED V, PO I LED LCF (230V/12,5kA)

- Usage for LED lights as 1st and 2nd level (T1 coarse and T2, medium) in 3-level overvoltage protection concept.
- It decreases overvoltage and reduces overvoltage wave energy caused by induction and switching processes in the connected low voltage network.
- Installation into the installation boxes to terminals of protected appliance or cable channel.
- Protection against the transverse and longitudinal overvoltage (L/N, L/PE, N/PE) and (L/PEN).
- Protective effect provided by a varistor combined with spark gap.
- Optical signalization of operational state.



DIMENSIONS



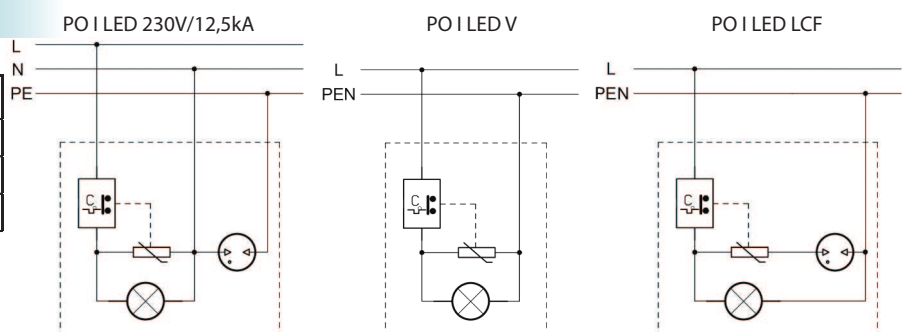
TECHNICAL PARAMETERS

TYPE		PO I LED	PO I LED V	PO I LED LCF
Specification		TN-S	TN-C	TN-C
		Patented	Patented	Patented
Connection		wire 2,5mm ²	wire 2,5mm ²	wire 2,5mm ²
L (mm)		160	160	160
Nominal voltage	U _n	230 V AC	230 V AC	230 V AC
Max. operation voltage	U _c	280 V AC	280 V AC	280 V AC
Impulse current (10/350) T1	I _{imp}	12,5 kA	12,5 kA	12,5 kA
Nom. discharge current (8/20) T1 T2	I _n	30 kA	30 kA	30 kA
Max. discharge current (8/20)	I _{max}	50 kA	50 kA	50 kA
Open circuit voltage	U _{oc}	20 kV	20 kV	20 kV
Voltage protection level	U _p (L-N)	≤1,5 kV	-	-
	U _p (L-PE)	≤1,8 kV	-	-
	U _p (N-PE)	≤1,5 kV	-	-
	U _p (L-PEN)	-	≤1,5 kV	≤1,8 kV
Response time	t _A (L-N)	<25 ns	<25 ns	<25 ns
	t _A (L-PE)	<100ns	<100ns	<100ns
Prospective short-circuit current of a power supply	I _p	25 kA _{ef}	25 kA _{ef}	25 kA _{ef}
Overcurrent protection gL/gG or a protector B, C		≤160 A	≤160 A	≤160 A
Operating temperature range	T _A	- 45 to + 85 °C	- 45 to + 85 °C	- 45 to + 85 °C
Storage temperature range	T _{stg}	- 45 to + 85 °C	- 45 to + 85 °C	- 45 to + 85 °C
Isolation voltage capability min.*1		2200 V	2200 V	2200 V
Degree of protection		IP 66		
Status indication of TDD (Thermic Disconnecting Device)		optical, green (OK)		
Colour		turquoise blue; RAL 5018		
Dimensions (mm)		40 x 81 x 20		
Products comply with norms		type 1 T1 + type 2 T2 + type 3 T3 Class I + Class II + Class III Klasse B + Klasse C + Klasse D		

Note: *1 (When the thermal disconnect opens)

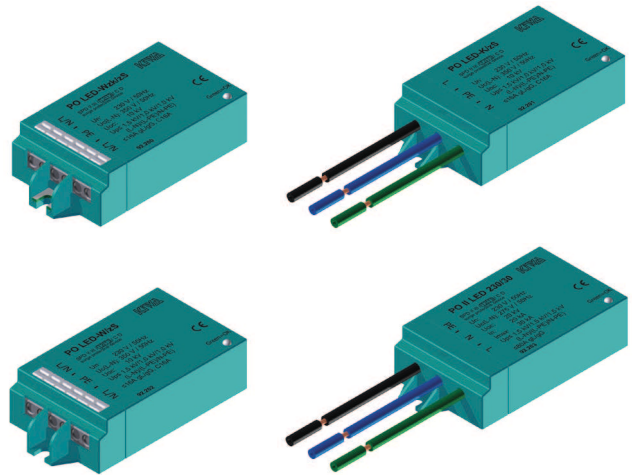
PRODUCT SPECIFICATION

TYPE	Order No.	Package
PO I LED 230V/12,5kA	92.204	1 pc
PO I LED V 230V/12,5kA	92.206	1 pc
PO I LED LCF 230V/12,5kA	92.205	1 pc



PO II LED, PO LED

- Usage for LED lights as 2nd and 3rd level (T2 medium and T3, fine protection) in 3-level overvoltage protection concept.
- It decreases overvoltage and reduces overvoltage wave energy caused by induction and switching processes in the connected low voltage network.
- Installation into the cable channel and installation boxes or to terminals of the protected appliance.
- Protection against the transverse and longitudinal overvoltage (L/N, L/PE, N/PE).
- Protective effect provided by a varistor combined with spark gap.
- Optical signalization of operational state.

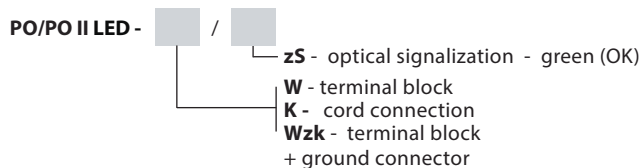


TECHNICAL PARAMETERS

TYPE		PO II LED 230V/30kA	PO LED-Wzk/zS	PO LED-W/zS	PO LED-K/zS
Connection		wire 2,5mm ²	terminal block, max. 1,5mm ²		wire 1,5mm ²
L (mm)		160	-		160
Nominal voltage	U _n	230 V AC		230 V AC	
Max. operation voltage	U _c	275 V AC		350 V AC	
Nominal discharge current (8/20) T2	I _n	20 kA		5 kA	
Max. discharge current (8/20)	I _{max}	30 kA		10 kA	
Open circuit voltage	U _{oc}	20 kV		10 kV	
Voltage protection level	U _p (L-N)	≤1,4 kV		≤1,5 kV	
	U _p (L-PE)	≤1,4 kV		≤1 kV	
	U _p (N-PE)	≤1,4 kV		≤1 kV	
Response time	t _A (L-N)	<25 ns		<25 ns	
	t _A (L-PE)	<100ns		<100ns	
Prospective short-circuit current of a power supply	I _p	25 kA _{ef}		10 kA _{ef}	
Overcurrent protection gL/gG or a protector B, C		≤80 A		≤16 A	
Operating temperature range	T _A	- 45 ... + 85 °C		- 25 ... + 80 °C	
Storage temperature range	T _{stg}	- 45 ... + 110 °C		-	
Isolation voltage capability min.*1		1500 V		-	
Degree of protection		IP 66		IP 20	
Status indication of TDD (Thermic Disconnecting Device)			optical, green (OK)		
Colour			turquoise blue; RAL 5018		
Dimensions (mm)			40 x 73,5 x 20		
Products comply with norms EN 61643-11 IEC 61643-1 VDE 0675-06			type 2 T2 + type 3 T3 class II + class III Klasse C + Klasse D		

Note: *1 (When the thermal disconnect opens)

PRODUCT SPECIFICATION



TYPE	Order No.
PO LED-Wzk/zS	92.200
PO LED-K/zS	92.201
PO LED-W/zS	92.202
PO II LED 230V/30kA	92.203

Condition of 10 y. Warranty: Although the surge protective unit PO LED itself provides protection against overvoltage, it is necessary that its installation is performed with a front-end protecting device of the Type 1 (or Type 2) in accordance with the concept of over-voltage protection coordination.