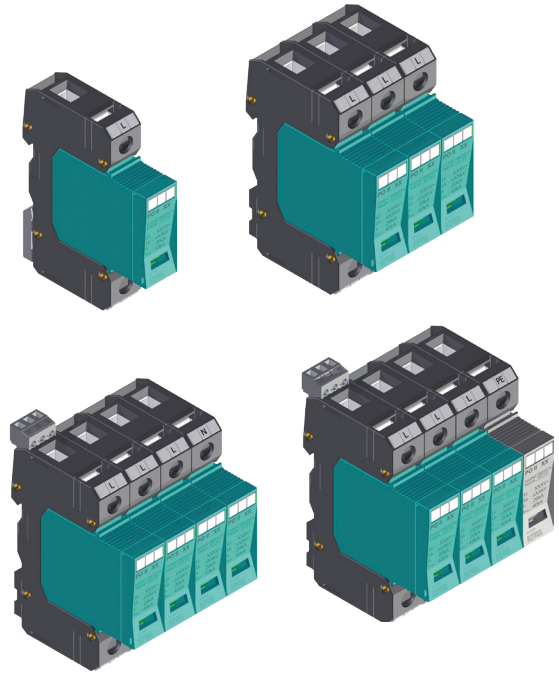
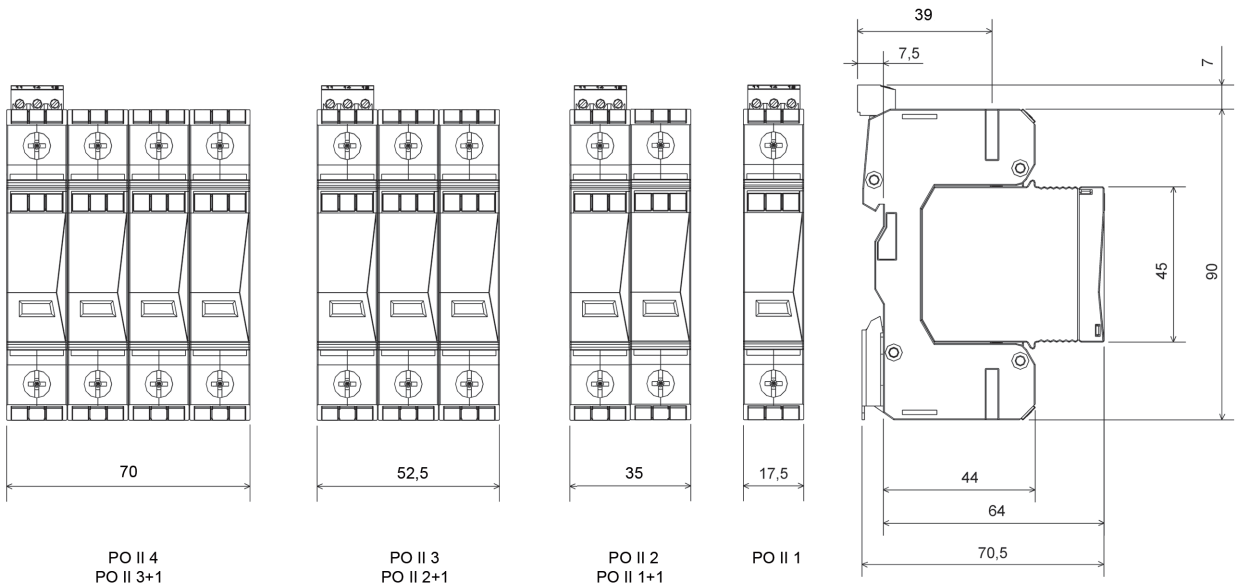


PO II

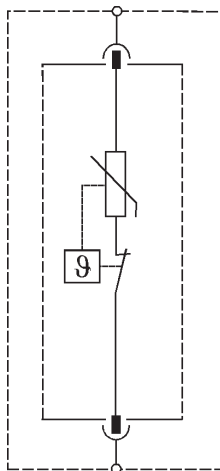
- For protection of mains and appliances in industrial buildings, administration buildings, buildings of civil amenities, detached houses and flats against the overvoltage
- Decreases overvoltage and restricts overvoltage energy wave caused by induction and switching activities in the low-voltage power supply
- Installation: into the sub-distribution board
- Usage as the 2nd level (T₂, medium protection) in 3-level overvoltage protection concept
- Provides protection against the overvoltage for appliances placed in the sub-distribution board in the range of T₂, T₃ (medium, fine protection)
- High diverting capability provided by power varistors MOV and by gas filled spark gaps
- Version: basic part + plug-in protective modules
- Protective modules rotatable with respect the base through 180°
- Optical and remote signalization of operation state
- Optical signalization of wear state (EWS version)
- Zero leakage current (LCF version)
- Multifunctional terminals for conductors and bus bars



DIMENSIONS



BASIC VERSION



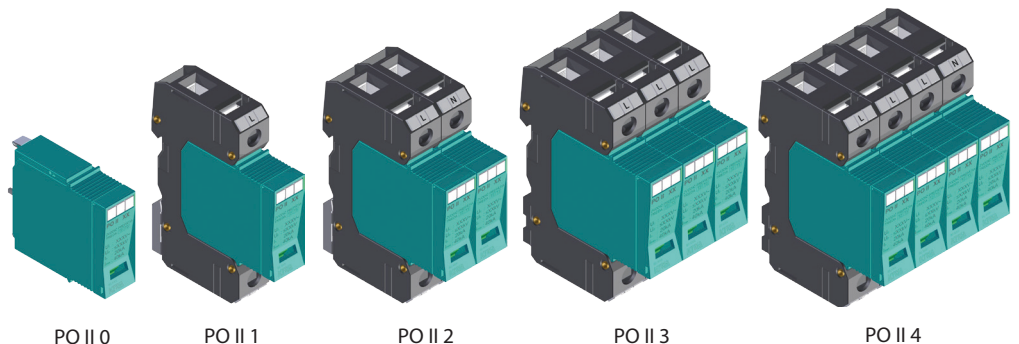
Signalling states:

- green = OK
- red = out of operation, to be replaced immediately

EWS VERSION

Wear signalling states in EWS version:

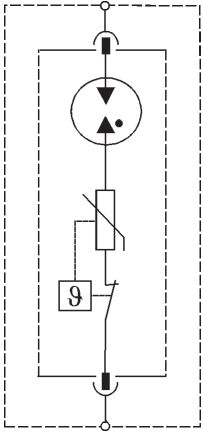
- green = OK
- yellow = replacement is recommended
- red = out of operation, to be replaced immediately



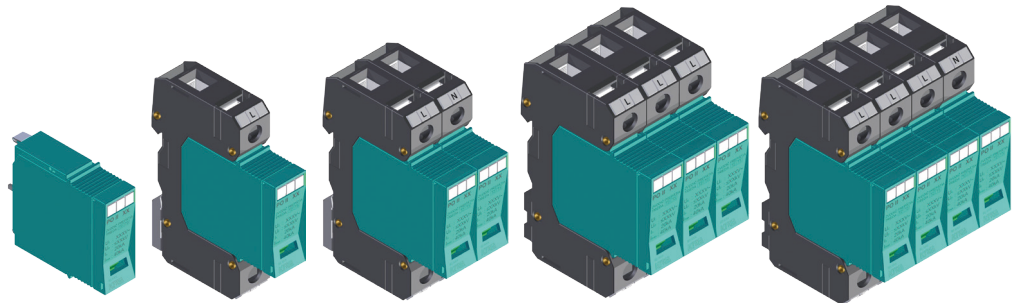
29/2017

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LCF VERSION



- LCF version is overvoltage protection with suppressed residual current
- The device can be connected in front of electricity meter
- Varistor is connected in series with gas filled spark gap



PO II 0 LCF

PO II 1 LCF

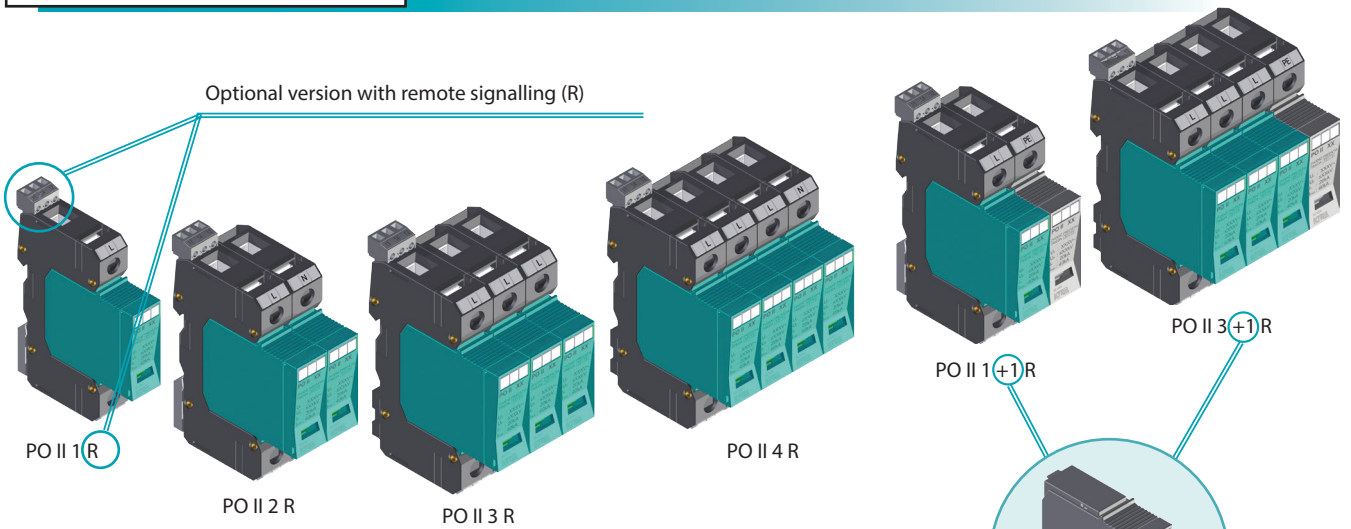
PO II 2 LCF

PO II 3 LCF

PO II 4 LCF

R and N-PE VERSION

Optional version with remote signalling (R)



PO II 1 R

PO II 2 R

PO II 3 R

PO II 4 R

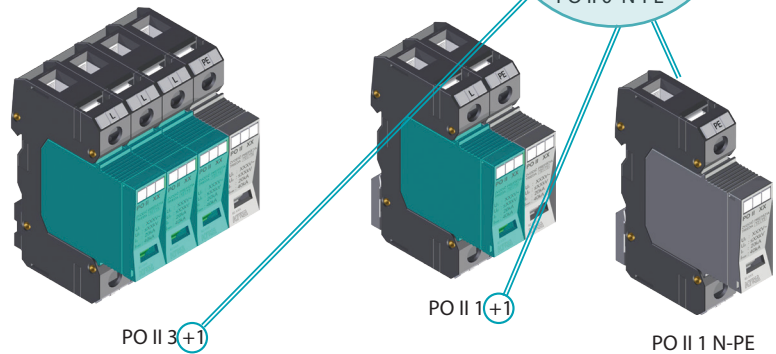
PO II 1 +1 R

PO II 3 +1 R

PO II 0 N-PE

N-PE version

Each product's modification containing varistor module, can be supplied with remote signalling system to identify a state of overvoltage protection device.



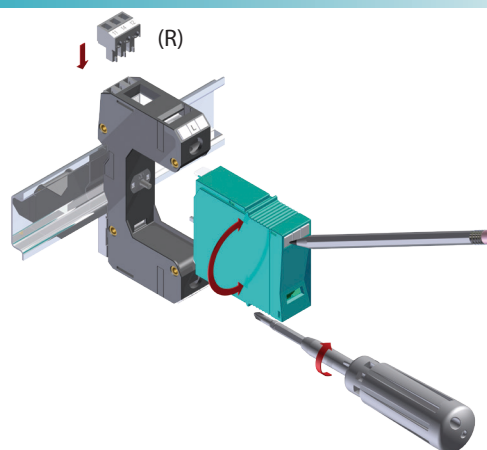
PO II 3 +1

PO II 1 +1

PO II 1 N-PE

INSTALLATION

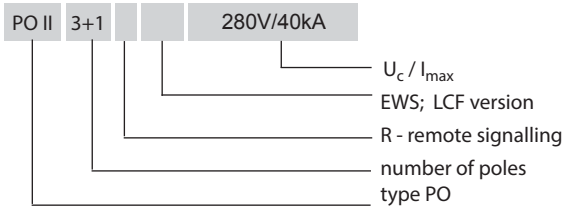
- Installation on DIN rail
- Cable labeling system using Dekafix replaceable strips
- Plug-in varistor can be turned through 180°



TECHNICAL PARAMETERS

KIWA	TYPE	PO II					
		L-N					N-PE
		280 V	75 V	130 V	385 V	550 V	
Number of poles		1	1	1	1	1	1
Nominal voltage	U_n	230 V~	60 V~	120 V~	385 V~	470 V~	230 V~
Max. operating voltage	U_c [T2] [T3]	280 V~	75 V~	130 V~	385 V~	550 V~	260 V~
Voltage protection level	U_p [T2] [T3]	≤1,45 kV	≤0,7 kV	≤0,85 kV	≤1,8 kV	≤2,65 kV	≤1,45 kV
Response time	t_A	<25 ns					<150 ns
Open circuit voltage	U_{oc} [T3]	6 kV					
Nominal discharge current (8/20)	I_n [T2]	20 kA					
Max. discharge current (8/20)	I_{max}	40 kA					
Prospective short-circuit current of a power supply	I_p	25 kA _{ef}					-
Overcurrent protection gL/gG		≤ 125 A					-
Temporary overvoltage	U_{TOV}	335 V~	90 V~	175 V~	560 V~	685 V~	-
Residual current	I_{PE}	-					<1 μA
Follow current	I_f	-					100 A
Signalling changeover contact		M3/0.25 Nm, □ max. 1,5 mm ² , max. 250V~/1A					-
Status indication of TDD (Thermic Disconnecting Device)		green (OK)/red (OUT)					-
Status indication of EWS		green (OK)/yellow/red (OUT)					-
Min. ... max. tightening torque		2 ... 3 Nm					
Connecting conductor cross section	- wire	4 ... 35 mm ²					
	- cord	4 ... 25 mm ²					
Operating temperature range		-40 ... +70 °C					
Degree of protection		IP 20					
Colour	- plug-in varistor	turquoise blue, RAL 5018					light grey, RAL 7035
	- holder	black; RAL 9011					black; RAL 9011
Dimensions		97 x 64 x 17,5 mm					
Mounting on profiled DIN rail		35 x 7,5 mm					
Products comply with norms		type 2 [T2] + type 3 [T3]					
		EN 61643-11					
		IEC 61643-1					
		VDE 0675-06					
		Class II + Class III					
		Klasse C + Klasse D					

PRODUCT SPECIFICATION



TYPE	U _c	Order number				
		280 V AC	75 V AC	130 V AC	385 V AC	550 V AC
PO II 1		82.001	82.021	82.025	82.033	82.043
PO II 1 R		82.005	82.023	82.029	82.037	82.047
PO II 1 EWS		82.068				
PO II 1 R EWS		82.070				
PO II 1+1		82.017				
PO II 1+1 R		82.019				
PO II 1 LCF		82.064				
PO II 1 R LCF		82.066				
PO II 2		82.002	82.022	82.026	82.034	82.044
PO II 2 R		82.006	82.024	82.030	82.038	82.048
PO II 2 EWS		82.069				
PO II 2 R EWS		82.071				
PO II 2+1		82.062				82.051
PO II 2+1 R		82.063				82.052
PO II 2 LCF		82.065				
PO II 2 R LCF		82.067				

TYPE	U _c	Order number				
		280 V AC	75 V AC	130 V AC	385 V AC	550 V AC
PO II 3		82.003		82.027	82.035	82.045
PO II 3 R		82.007		82.031	82.039	82.049
PO II 3 EWS		82.013				
PO II 3 R EWS		82.015				
PO II 3+1		82.018			82.041	
PO II 3+1 R		82.020			82.042	
PO II 3 LCF		82.009				
PO II 3 R LCF		82.011				
PO II 4		82.004		82.028	82.036	82.046
PO II 4 R		82.008		82.032	82.040	82.050
PO II 4 EWS		82.014				
PO II 4 R EWS		82.016				
PO II 4 LCF		82.010				
PO II 4 R LCF		82.012				
PO II 0		82.053	82.056	82.057	82.058	82.059
PO II 0 LCF		82.054				
PO II 0 EWS		82.055				

TYPE	U _c	Order number
		260 V AC
PO II 0 N-PE		82.060
PO II 1 N-PE		82.061