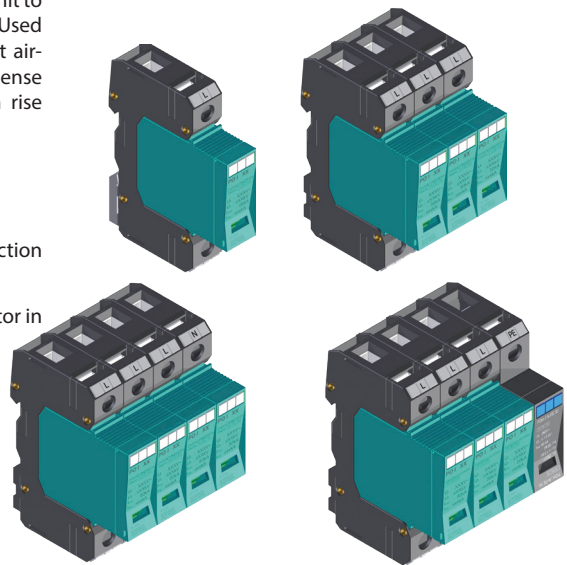
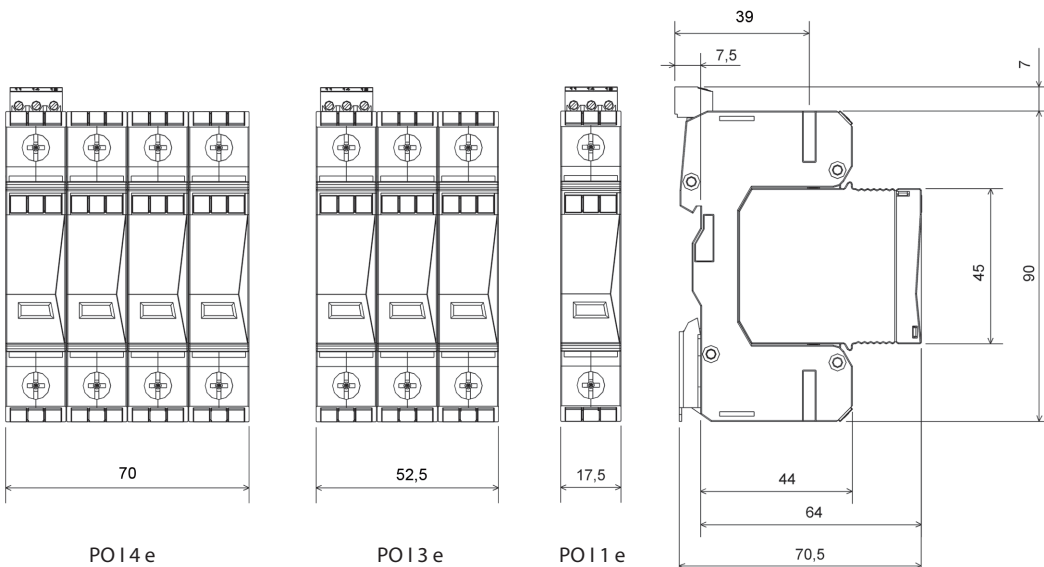


## PO1e

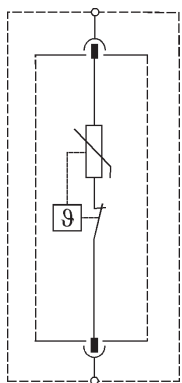
- For protection of mains and appliances where no risk of a direct (lightning) hit to a building or supply network is present - LOW THREAT OF INSTALLATION. Used for objects with lightning protection level LPL IV - family houses without air-termination conductor, network supply by earth cable, situated inside dense build-up area objects and halls inside dense build up areas with high rise buildings.
- Decreases overvoltage and restricts overvoltage wave energy
- Installation: into the main distributor
- Usage as the 1st level (T1, coarse protection) in a 3-level overvoltage protection concept
- Provides overvoltage protection for appliances placed in the main distributor in the range T1, T2, T3 (coarse, medium and fine protection)
- High diverting cable ability provided by power varistors MOV
- Version: basic part + plug-in protective modules
- Protective modules rotatable with respect to the base through 180°
- Optical and remote signalization of operation state
- Multifunctional terminals for conductors and bus bars





## DIMENSIONS

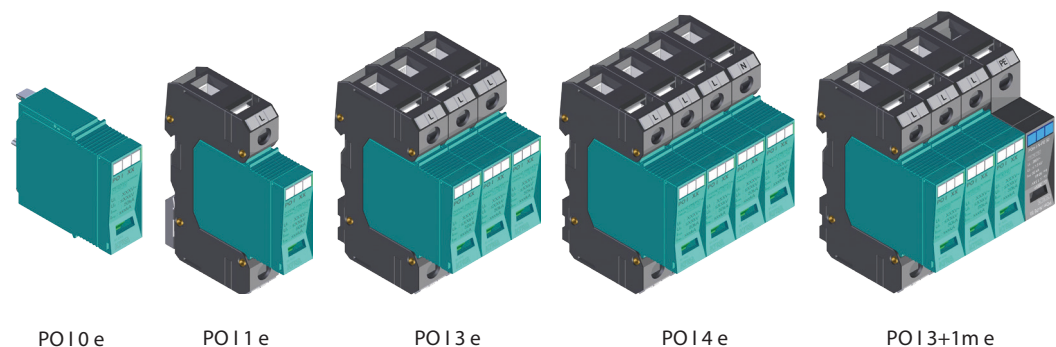


## BASIC VERSION



Signalling states:

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



PO10e

PO11e

PO13e

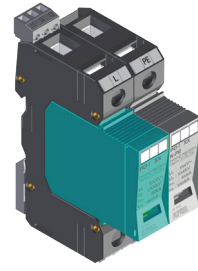
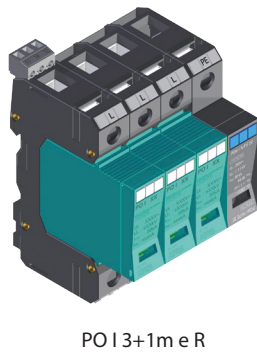
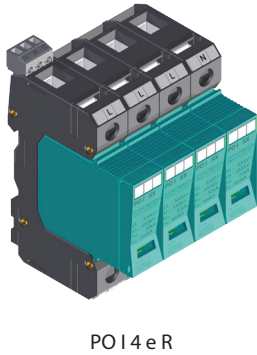
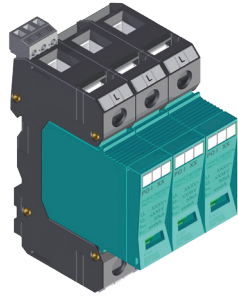
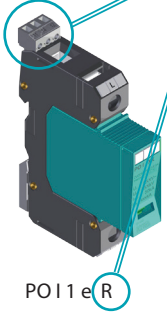
PO14e

PO13+1me

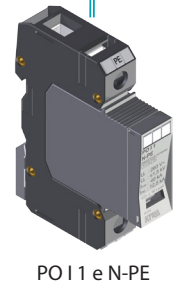
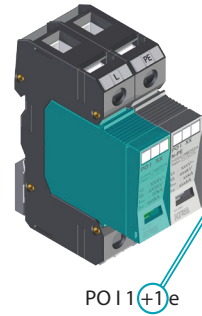
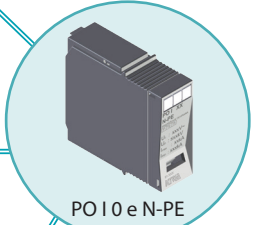
**R and N-PE VERSION**

Optional version with remote signalling (R)

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

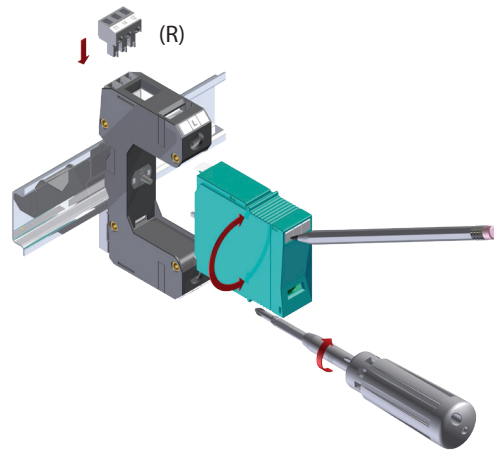


N-PE version



**INSTALLATION**

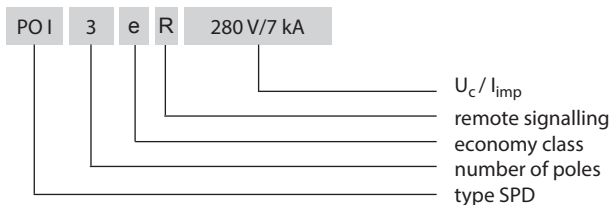
- Installation on DIN rail
- Cable labeling system using Dekafix replaceable strips
- Plug-in varistor can be turned through 180°



## TECHNICAL PARAMETERS

KIWA	TYPE	PO I e	
		L-N	N-PE
Number of poles		1	1
Nominal voltage	$U_n$	230 V AC	230 V AC
Max. operating voltage $\boxed{T1}\boxed{T2}\boxed{T3}$	$U_c$	280 V AC	260 V AC
Voltage protection level $\boxed{T1}\boxed{T2}\boxed{T3}$	$U_p$	$\leq 1,3$ kV	$\leq 1,5$ kV
Response time	$t_A$	<25 ns	<100 ns
Impulse current (10/350)	$I_{imp}$	7 kA	12,5 kA/25 kA
Open circuit voltage $\boxed{T3}$	$U_{oc}$	10 kV	6 kV
Nom. discharge current (8/20) $\boxed{T1}\boxed{T2}$	$I_n$	20 kA	20 kA
Max. discharge current (8/20)	$I_{max}$	40 kA	40 kA
Prospective short-circuit current of a power supply	$I_p$	25 kA <sub>ef</sub>	-
Overcurrent protection gL/gG		$\leq 160$ A	-
Temporary overvoltage	$U_{TOV}$	335 V AC	-
Residual current	$I_{PE}$	-	<1 $\mu$ A
Follow current	$I_f$	-	100 A
Signalling changeover contact		M3/0.25 Nm, $\square$ max. 1,5 mm <sup>2</sup> , max. 250 V AC/1 A	-
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 ... 35mm <sup>2</sup>	
	- cord	4 ... 25 mm <sup>2</sup>	
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	
Dimensions		97 x 64 x 17,5 mm	
Mounting on profiled DIN rail		35 x 7,5 mm	
Products comply with norms EN 61643-11 IEC 61643-1 VDE 0675-06		type 1 $\boxed{T1}$ + type 2 $\boxed{T2}$ + type 3 $\boxed{T3}$ Class I + Class II + Class III Klasse B + Klasse C + Klasse D	

## PRODUCT SPECIFICATION



TYPE	Order N°	TYPE	Order N°
POI 1 e	81.200	POI 3+1m e	81.206
POI 3 e	81.201	POI 3+1m e R	81.207
POI 1 e R	81.202	POI 0 e	81.208
POI 3 e R	81.203	POI 0 e N-PE	81.209
POI 1+1 e	81.204	POI 4 e	81.210
POI 1+1 e R	81.205	POI 4 e R	81.211