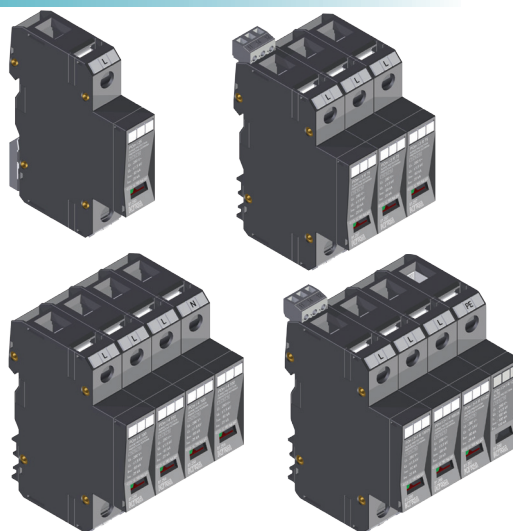
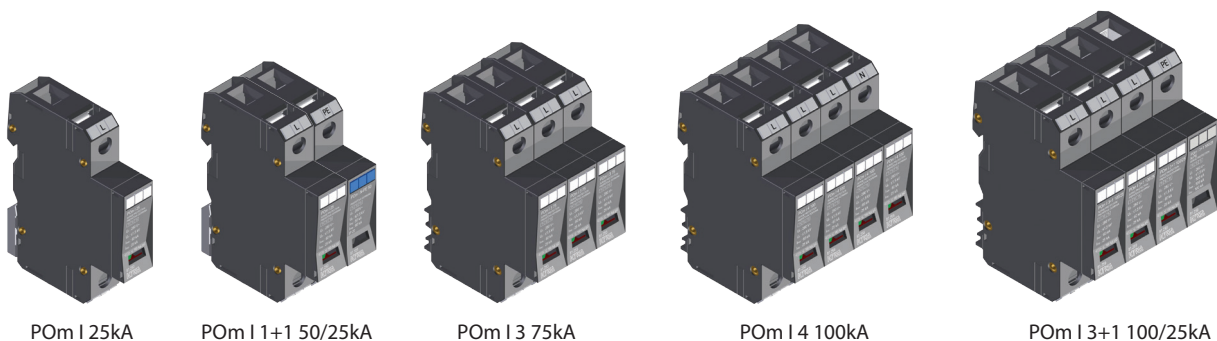


**POm I 25**

- For protection of mains and appliances in industrial buildings, administration buildings, buildings of civil amenities and detached houses against the effects of overvoltage wave caused by a close, direct or indirect lightning hit
- It decreases overvoltage and restricts overvoltage wave energy
- Installation: into the main distributor
- Usage as the 1st level **T1** of overvoltage protection
- It provides overvoltage protection for appliances installed in the main distributor in the range of **T1**, **T2**, **T3** (coarse, medium and fine protection)
- High diverting capability provided by powerful varistors MOV and lightning arrester
- Optical and remote signalization of operation state
- Multifunctional terminals for conductors



**VERSIONS**



POm I 25kA

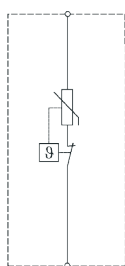
POm I 1+1 50/25kA

POm I 3 75kA

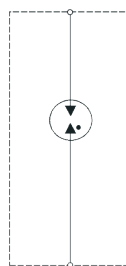
POm I 4 100kA

POm I 3+1 100/25kA

**BASIC AND N-PE VERSION**



Basic version



N-PE version

**SIGNALLING STATES**

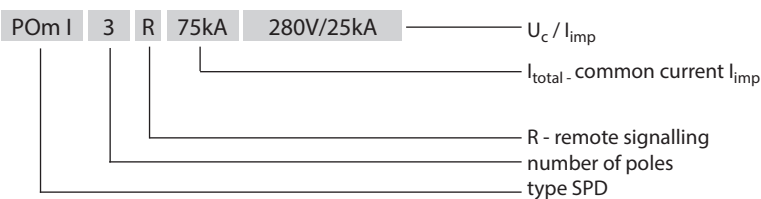
Signalling states



Green = OK

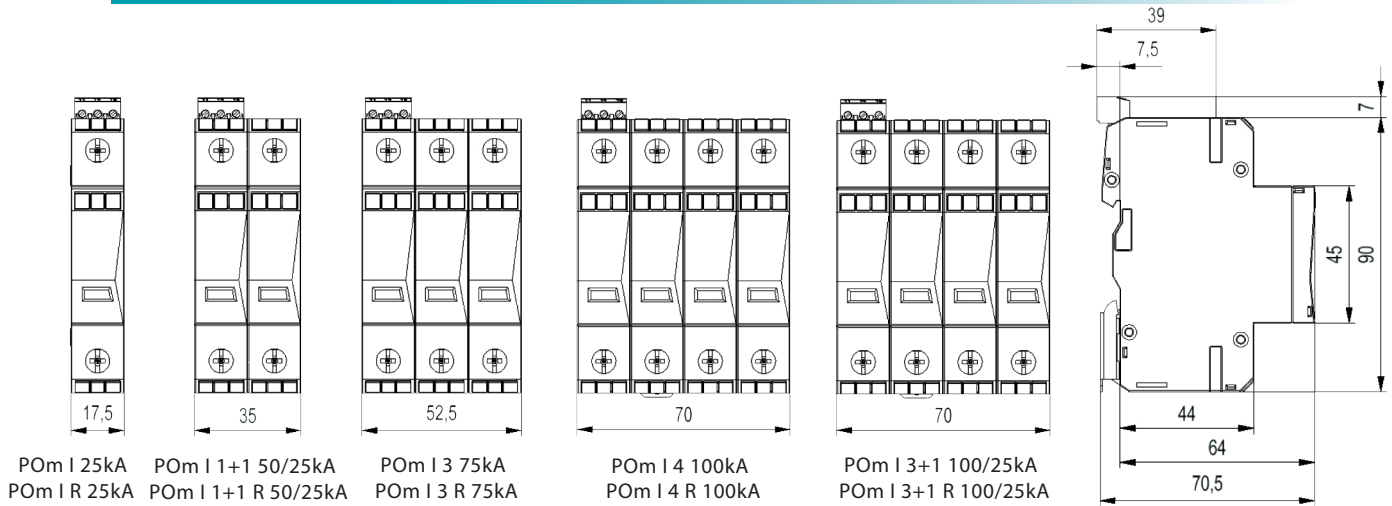
red = out of operation, to be replaced immediately

**PRODUCT SPECIFICATION**



TYPE	Order No.
POm I 25kA 280V/25kA	81.250
POm I R 25kA 280V/25kA	81.255
POm I 3 75kA 280V/25kA	81.253
POm I 3 R 75kA 280V/25kA	81.257
POm I 4 100kA 280V/25kA	81.254
POm I 4 R 100kA 280V/25kA	81.258
POm I 3+1 100/25kA 280V/25kA	81.259
POm I 3+1 R 100/25kA 280V/25kA	81.260
POm I 1+1 50/25kA 280V/25kA	81.261
POm I 1+1 R 50/25kA 280V/25kA	81.262

## DIMENSIONS



## TECHNICAL PARAMETERS

KIWA	TYPE	POm I		
		L-N/PE		N-PE
		25	50	100
Number of poles		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 $\boxed{T1} \boxed{T2} \boxed{T3}$	$U_p$	$\leq 1,5$ kV		
Response time	$t_A$	$< 25$ ns		$< 100$ ns
Impulse current (10/350)	$I_{imp}$	25 kA	50 kA	100 kA
Open circuit voltage $\boxed{T3}$	$U_{oc}$	20 kV	10 kV	6 kV
Nom. discharge current (8/20) $\boxed{T1} \boxed{T2}$	$I_n$	30 kA	60 kA	100 kA
Max. discharge current (8/20)	$I_{max}$	60 kA	60 kA	100 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. 0,2 ... 1,5 mm <sup>2</sup> , max. 250 V AC/1A		-
Status indication of TDD (Thermic Disconnecting Device)		Green (OK) Red (OUT)		-
Status indication of EWS		-		
Min. ... max. tightening torque		2 ... 3 Nm		
Connecting conductor cross section:	- wire	4 ... 35 mm <sup>2</sup>		
	- cord	4 ... 25 mm <sup>2</sup>		
Operating temperature range		- 40 ... +70 °C		
Degree of protection		IP 20		
Colour		Black; RAL 9011		
Dimensions (mm) / R version (mm)		90 x 64 x 35 / 97 x 64 x 35		90 x 64 x 35
Mounting on profiled DIN rail		35 x 7,5 mm		
Products comply with norms		type 1 $\boxed{T1}$ + type 2 $\boxed{T2}$ + type 3 $\boxed{T3}$		
STN EN 61643-11		Class I + Class II + Class III		
IEC 61643-1		Klasse B + Klasse C + Klasse D		
VDE 0675-06				