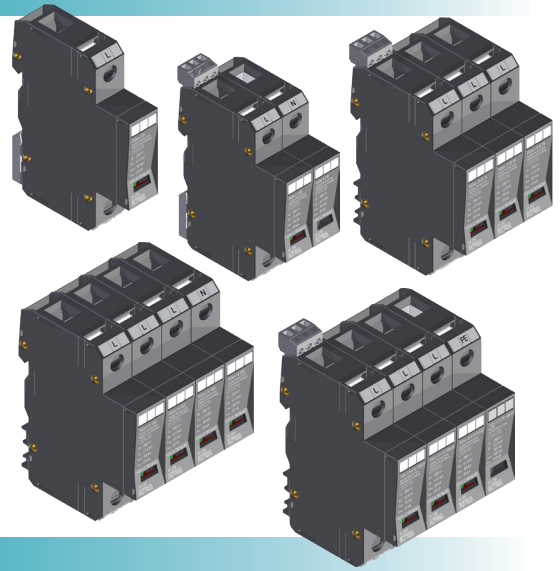
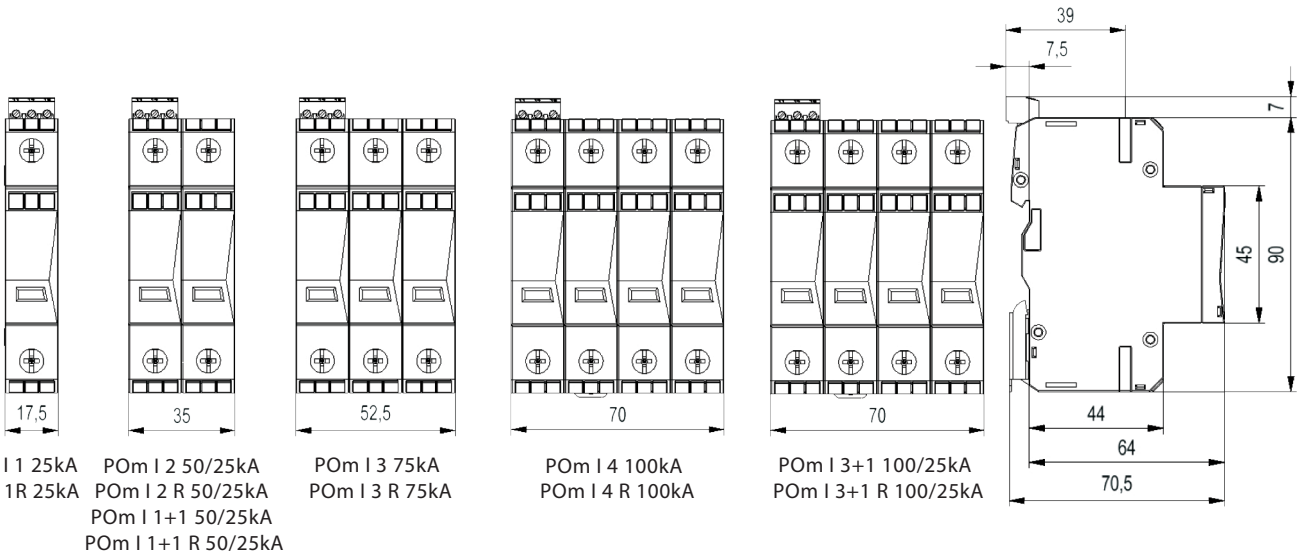


**POm I 25**

- 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 signaling of operation state
- Multifunctional terminals for conductors
- Possibility of monoblock connection by bus bars

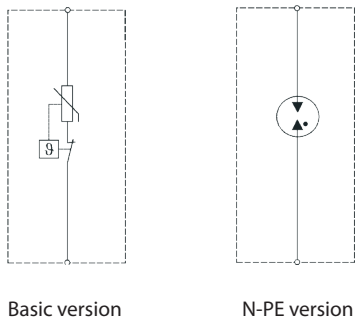


**DIMENSIONS**



**BASIC AND N-PE VERSION**

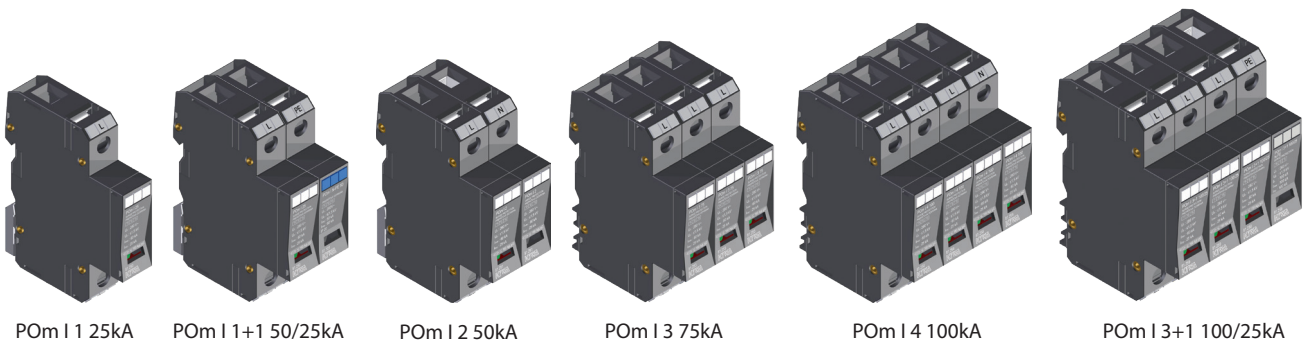
**SIGNALLING STATES**



Signalling states

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

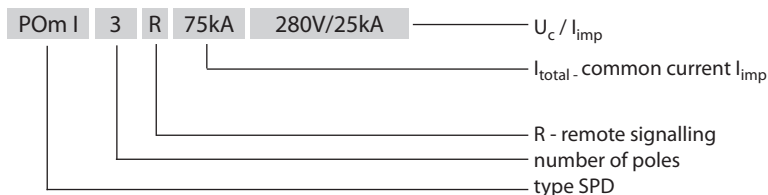
**VERSIONS**



## TECHNICAL PARAMETERS

TYPE	POm I		
	L-N/PE	N-PE	
	25	50	100
Number of poles	1		1
Nominal voltage $U_n$	230 V AC		230 V AC
Max. operating voltage $U_c$ <span>T1 T2 T3</span>	280 V AC		260 V AC
Voltage protection level $U_p$ <span>T1 T2 T3</span>	≤1,5 kV		≤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 $U_{oc}$ <span>T3</span>	20 kV	10 kV	6 kV
Nom. discharge current (8/20) $I_n$ <span>T1 T2</span>	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	≤160 A	-	
Temporary overvoltage $U_{TOV}$	335 V AC	-	
Residual current $I_{PE}$	-	<1 μA	
Follow current $I_f$	-	100 A	
Signalling changeover contact	M3/0.25 Nm, □ 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 <span>T1</span> + type 2 <span>T2</span> + type 3 <span>T3</span> Class I + Class II + Class III Klasse B + Klasse C + Klasse D		
STN EN 61643-11			
IEC 61643-1			
VDE 0675-06			

## PRODUCT SPECIFICATION



TYPE	Order No.
POm I 1 25kA 280V/25kA	81.250
POm I 1 R 25kA 280V/25kA	81.255
POm I 2 50kA 280V/25kA	81.251
POm I 2 R 50kA 280V/25kA	81.256
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