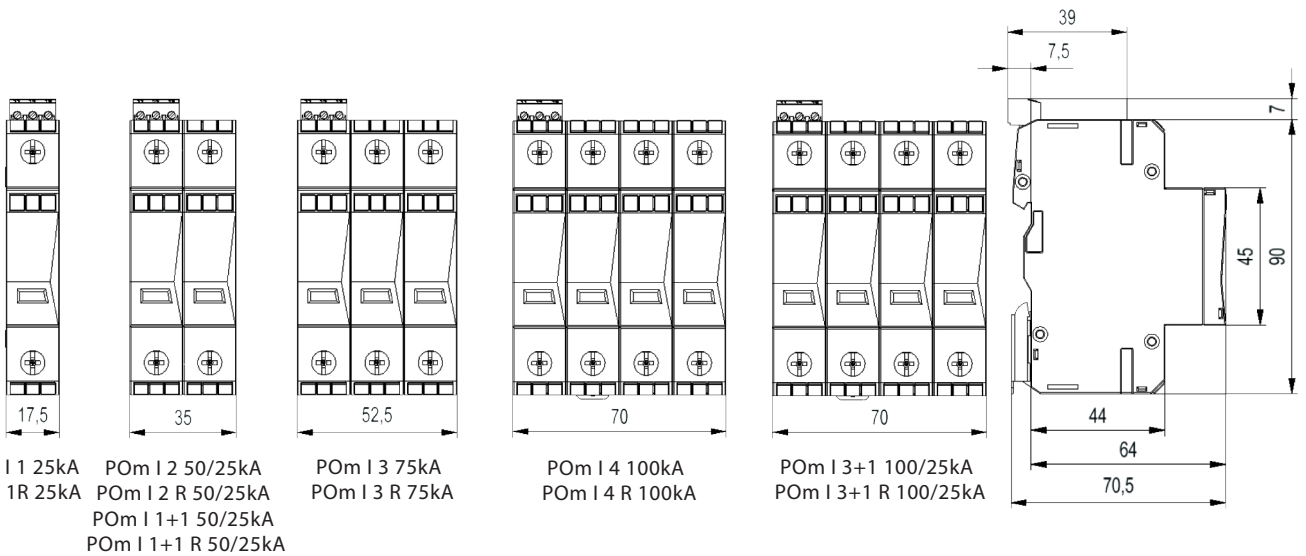


POm I 25

- 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
- Possibility of monoblock connection by bus bars

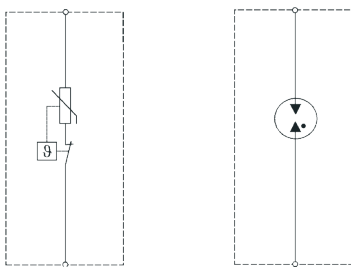


DIMENSIONS



BASIC AND N-PE VERSION

SIGNALLING STATES



Basic version N-PE version

Signalling states

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

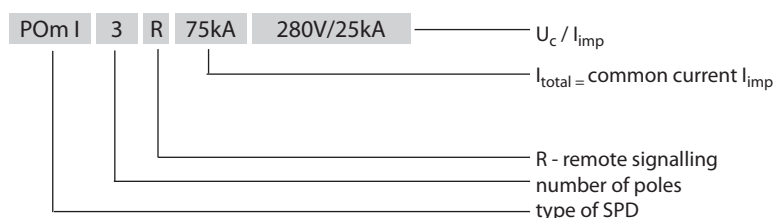
VERSIONS



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 T1 T2 T3	280 V AC	260 V AC	
Voltage protection level U_p T1 T2 T3	$\leq 1,5$ kV	$\leq 1,5$ kV	
Response time t_A	< 25 ns	< 100 ns	
Impulse current (10/350) I_{imp}	25 kA	50 kA	100 kA
Open circuit voltage U_{oc} T3	20 kV	10 kV	6 kV
Nom. discharge current (8/20) I_n T1 T2	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 _{ef}	-	
Overcurrent protection gL/gG	≤ 160 A	-	
Temporary overvoltage U_{TOV}	335 V AC	-	
Residual current I_{PE}	-	< 1 μ A	
Follow current I_f	-	100 A	
Signalling changeover contact	M3/0.25 Nm, \square max. 0,2 ... 1,5 mm ² , max. 250 V AC/1 A		
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 ²	
	- cord	4 ... 25 mm ²	
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 STN EN 61643-11 IEC 61643-1 VDE 0675-06	type 1 T1 + type 2 T2 + type 3 T3 Class I + Class II + Class III Klasse B + Klasse C + Klasse D		

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