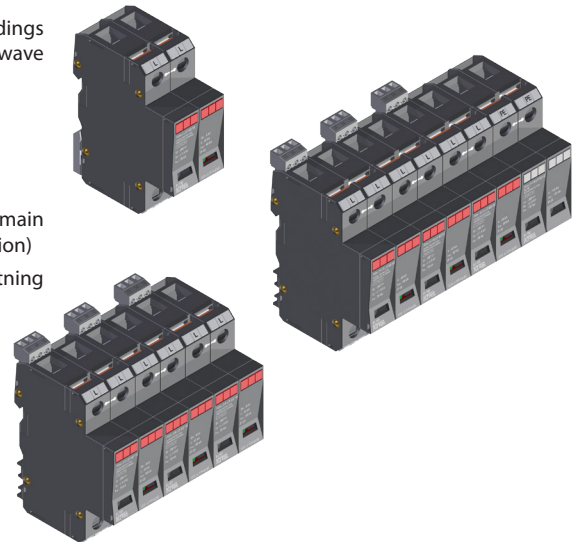
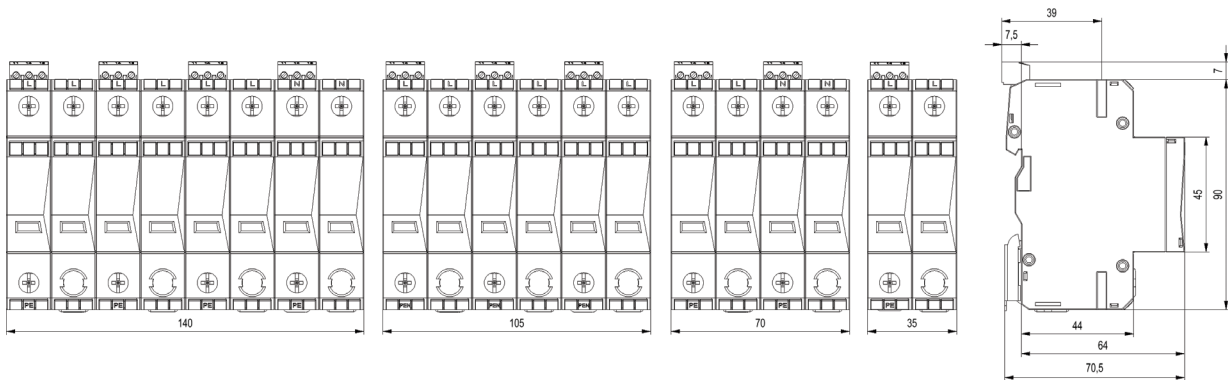


## POm I LCF BD

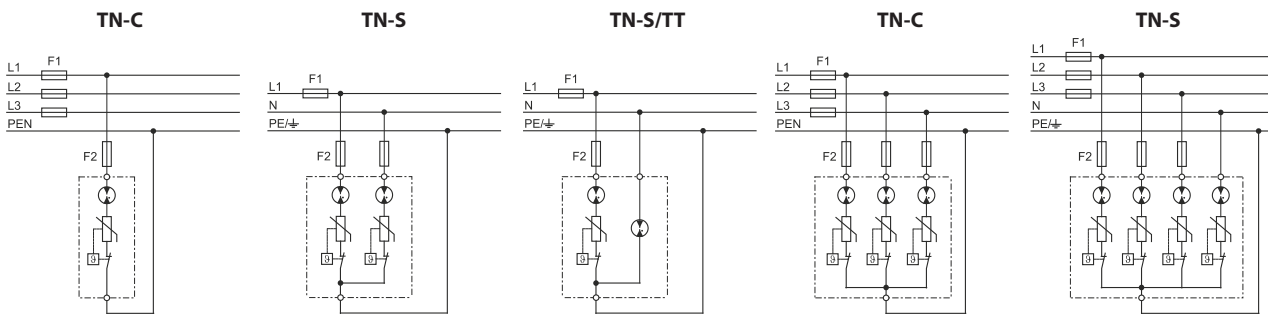
- For protection of mains and appliances in administration buildings, buildings of civil amenities and detached houses against effects of overvoltage wave caused by a close, direct or indirect lightning hit
- It decreases overvoltage and restricts overvoltage wave energy
- Installation: into the main 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 power varistors MOV and lightning arrester
- Zero leaking current (LCF version)
- Zero follow current
- Optical and remote signaling of operation state
- Multifunctional terminals for conductors
- Possibility of monoblock connection by bus bars



## DIMENSIONS



## CONNECTION DIAGRAM



POm I LCF BD 38 kA

POm I 2 LCF BD 76 kA

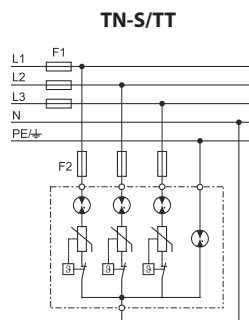
POm I 1+1 LCF BD 100 kA

POm I 3 LCF BD 114 kA

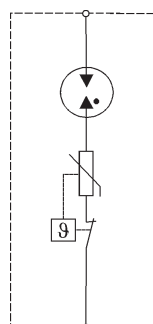
POm I 4 LCF BD 152 kA

## CONNECTION DIAGRAM

## LCF VERSION





POm I 3+1LCF BD 100 kA

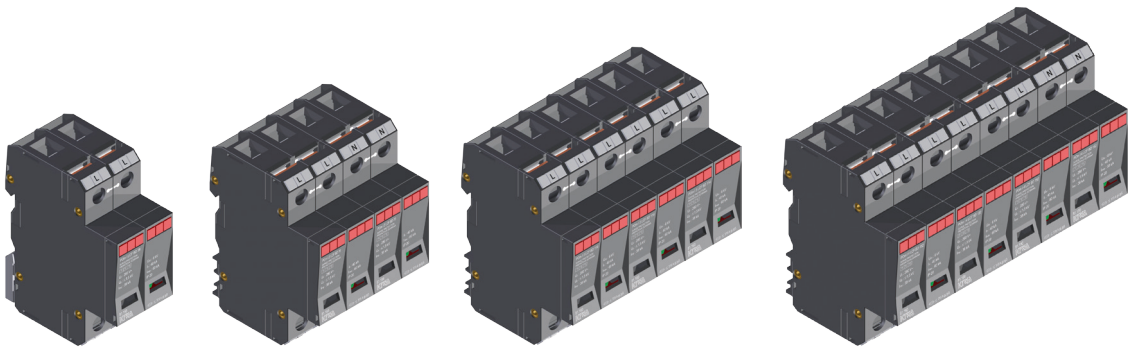


- LCF version is version with zero leaking current and zero follow current
- Possibility of application in front of electricity meter\*\* as well as after current breaker (\*\*valid only with the agreement of appropriate electricity supplier)
- Varistor is connected in series with gas filled spark gap

Signalling states

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

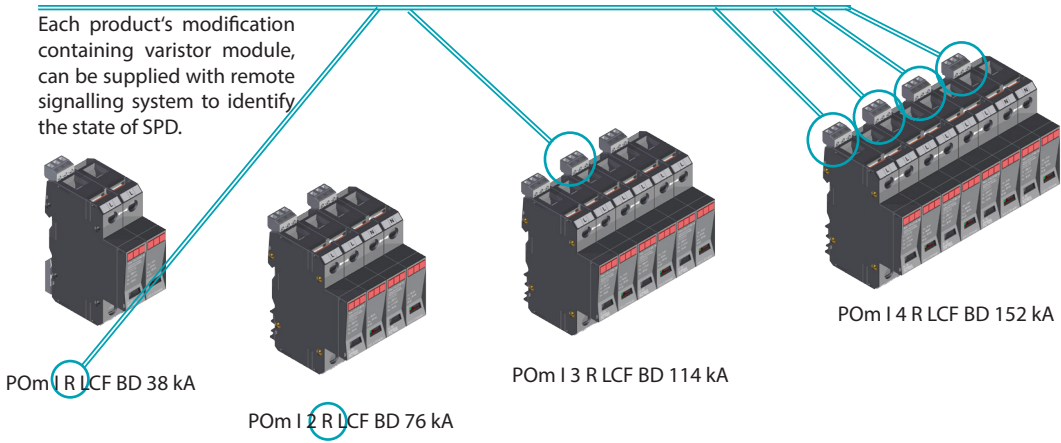
**DELIVERY AND ASSEMBLY INSTRUCTION**



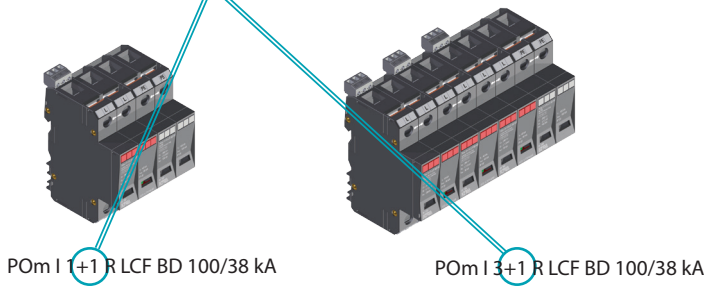
POm I LCF BD 38 kA      POm I 2 LCF BD 76 kA      POm I 3 LCF BD 114 kA      POm I 4 LCF BD 152 kA

**R and N-PE VERSION**

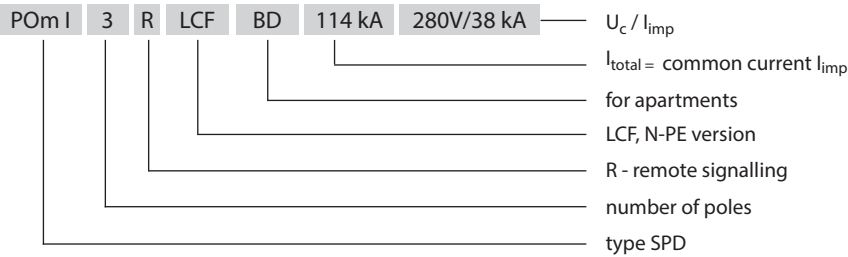
Each product's modification containing varistor module, can be supplied with remote signalling system to identify the state of SPD.



N-PE version monoblock 100 kA



**PRODUCT SPECIFICATION**



TYPE	Order number
POm I LCF BD 38kA 280V/38kA	81.156
POm I R LCF BD 38kA 280V/38kA	81.157
POm I 2 LCF BD 76kA 280V/38kA	81.194
POm I 2 R LCF BD 76kA 280V/38kA	81.195
POm I 3 LCF BD 114kA 280V/38kA	81.160
POm I 3 R LCF BD 114kA 280V/38kA	81.161
POm I 4 LCF BD 152kA 280V/38kA	81.190
POm I 4 R LCF BD 152kA 280V/38kA	81.191

TYPE	Order number
POm I 1+1 LCF BD 100/38kA 280V/38kA	81.196
POm I 1+1 R LCF BD 100/38kA 280V/38kA	81.197
POm I 3+1 LCF BD 152/38kA 280V/38kA	81.192
POm I 3+1 R LCF BD 152/38kA 280V/38kA	81.193

## TECHNICAL PARAMETERS

KIWA	TYPE	POm I	
		L-N/PE	N-PE
Number of poles		1	1
Nominal voltage	$U_n$	230 V AC	230 V AC
Max. operating voltage <span style="border: 1px solid black; padding: 0 2px;">T1</span> <span style="border: 1px solid black; padding: 0 2px;">T2</span> <span style="border: 1px solid black; padding: 0 2px;">T3</span>	$U_c$	280 V AC	260 V AC
Voltage protection level <span style="border: 1px solid black; padding: 0 2px;">T1</span> <span style="border: 1px solid black; padding: 0 2px;">T2</span> <span style="border: 1px solid black; padding: 0 2px;">T3</span>	$U_p$	≤1,5 kV	≤1,5 kV
Response time	$t_A$	<100 ns	<100 ns
Impulse current (10/350)	$I_{imp}$	38 kA	100 kA
Open circuit voltage <span style="border: 1px solid black; padding: 0 2px;">T3</span>	$U_{oc}$	6 kV	6 kV
Nom. discharge current (8/20) <span style="border: 1px solid black; padding: 0 2px;">T1</span> <span style="border: 1px solid black; padding: 0 2px;">T2</span>	$I_n$	40 kA	100 kA
Max. discharge current (8/20)	$I_{max}$	60 kA	100 kA
Prospective short-circuit current of a power supply	$I_p$	25 kA <sub>ef</sub>	-
Overcurrent protection gL/gG		≤315 A	-
Temporary overvoltage	$U_{TOV}$	335 V AC	335 V AC
Residual current	$I_{PE}$	<1 μA	<1 μA
Follow current	$I_f$	-	-
Signalling changeover contact		M3/0.25 Nm, □ 0,2 ... 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		-	
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		97x64x35	97x64x35
Mounting on profiled DIN rail		35 x 7,5 mm	
Products comply with norms STN EN 61643-11 IEC 61643-1 VDE 0675-06		typ 1 <span style="border: 1px solid black; padding: 0 2px;">T1</span> + typ 2 <span style="border: 1px solid black; padding: 0 2px;">T2</span> + typ 3 <span style="border: 1px solid black; padding: 0 2px;">T3</span> Class I + Class II + Class III Klasse B + Klasse C + Klasse D	