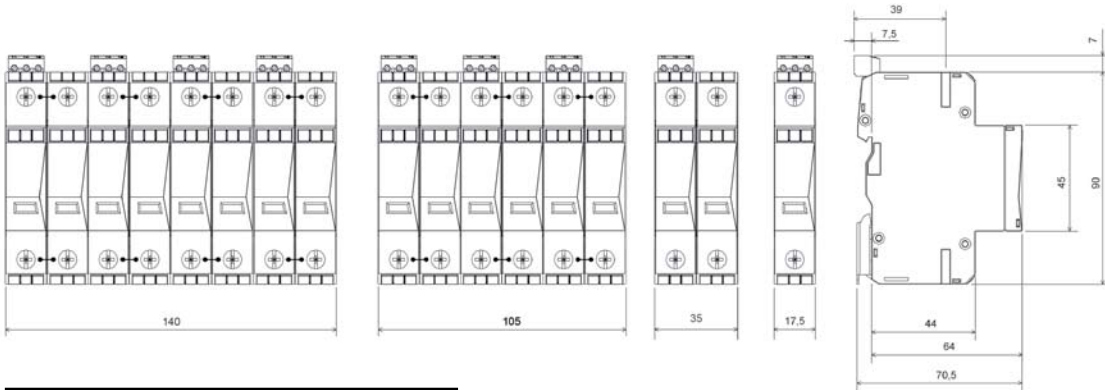


POm I LCF

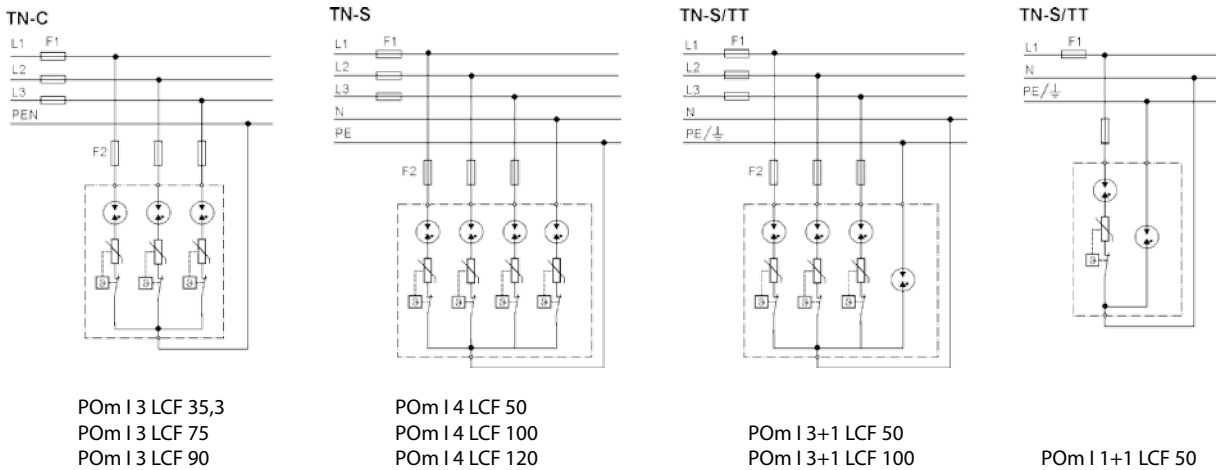
- For protection of mains and appliances in industrial buildings, administration buildings, buildings of civil amenities, detached houses against the effects of overvoltage wave caused by a close or indirect lightning hit
- It decreases overvoltage and restricts overvoltage wave energy
- Installation: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



DIMENSIONS



CONNECTION DIAGRAM



N-PE VERSION

LCF VERSION




























- LCF version is version with zero residual current and zero follow current
- The device can be connected in front of electricity meter
- Varistor is connected in series with gas filled spark gaps

Signalling states

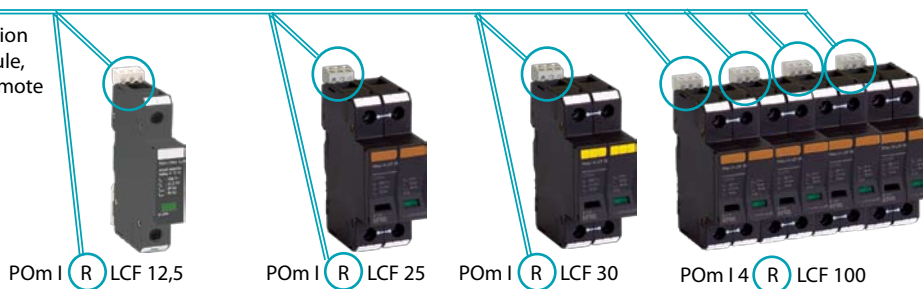
- █ green = OK
- █ red = out of operation, to be replaced immediately

DELIVERY AND ASSEMBLY INSTRUCTION

	Completed from individual poles – using individual poles taken from store during the assembly process according to needs	Delivered and assembled as one unit – simple installation
 POm I LCF 12,5 $I_{imp} = 12,5 \text{ kA}$	 3x POm I LCF 12,5 $\Sigma I_{imp} = 37,5 \text{ kA}$  4x POm I LCF 12,5 $\Sigma I_{imp} = 50 \text{ kA}$  3x POm I LCF 12,5 1x POm I N-PE 50 $\Sigma I_{imp} = 50 \text{ kA}$	 POm I 3 LCF 37,5 $\Sigma I_{imp} = 37,5 \text{ kA}$  POm I 4 LCF 50 $\Sigma I_{imp} = 50 \text{ kA}$  POm I 3+1 LCF 50 $\Sigma I_{imp} = 50 \text{ kA}$
 POm I LCF 25 $I_{imp} = 25 \text{ kA}$	 3x POm I LCF 25 $\Sigma I_{imp} = 75 \text{ kA}$  4x POm I LCF 25 $\Sigma I_{imp} = 100 \text{ kA}$  3x POm I LCF 25 1x POm I N-PE 100 $\Sigma I_{imp} = 100 \text{ kA}$  1x POm I LCF 25 1x POm I N-PE 50 $\Sigma I_{imp} = 50 \text{ kA}$	 POm I 3 LCF 75 $\Sigma I_{imp} = 75 \text{ kA}$  POm I 4 LCF 100 $\Sigma I_{imp} = 100 \text{ kA}$  POm I 3+1 LCF 100/25 $\Sigma I_{imp} = 100 \text{ kA}$  POm I 1+1 LCF 50/25 $\Sigma I_{imp} = 50 \text{ kA}$
 POm I LCF 30 $I_{imp} = 30 \text{ kA}$	 3x POm I LCF 30 $\Sigma I_{imp} = 90 \text{ kA}$  4x POm I LCF 30 $\Sigma I_{imp} = 120 \text{ kA}$  3x POm I LCF 30 1x POm I N-PE 100 $\Sigma I_{imp} = 100 \text{ kA}$  1x POm I LCF 30 1x POm I N-PE 50 $\Sigma I_{imp} = 50 \text{ kA}$	 POm I 3 LCF 90 $\Sigma I_{imp} = 90 \text{ kA}$  POm I 4 LCF 120 $\Sigma I_{imp} = 120 \text{ kA}$  POm I 3+1 LCF 100/30 $\Sigma I_{imp} = 100 \text{ kA}$  POm I 1+1 LCF 50/30 $\Sigma I_{imp} = 50 \text{ kA}$

R VERSION

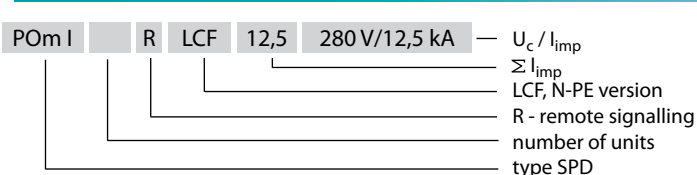
Each product's modification containing varistor module, can be equipped with remote signalling system to identify a state of SPD.



TECHNICAL PARAMETERS

KIWA	TYPE	POm I				
		N-PE		L-N		
		50	100	LCF 12,5	LCF 25	LCF 30
Number of ports		1	1	1	1	1
Nominal voltage	U_n	230 V~	230 V~	230 V~	230 V~	230 V~
Max. operating voltage	U_c	260 V~	260 V~	280 V~	280 V~	280 V~
Voltage protection level	U_p	≤1,5 kV	≤1,5 kV	≤1,5 kV	≤1,5 kV	≤1,5 kV
Response time	t_A	<100 ns	<100 ns	<100 ns	<100 ns	<100 ns
Impulse current (10/350)	I_{imp}	50 kA	100 kA	12,5 kA	25 kA	30 kA
Open circuit voltage	U_{oc}	10 kV	6 kV	6 kV	6 kV	6 kV
Nom. discharge current (8/20)	I_n	60 kA	100 kA	30 kA	40 kA	40 kA
Max. discharge current (8/20)	I_{max}	60 kA	100 kA	50 kA	60 kA	60 kA
Prospective short-circuit current of a power supply	I_p			25 kA _{ef}	25 kA _{ef}	25 kA _{ef}
Overcurrent protection gL/gG		-	-	≤160 A	≤250 A	≤315 A
Temporary overvoltage	U_{TOV}	-	-		335 V~	
Residual current	I_{PE}	<1 μA		<1 μA		
Follow current	I_f	100 A		-		
Signalling changeover contact		-	-	M3/0.25 Nm, □0,2 ... 1,5 mm ² , max. 250 V~/1A		
Status indication of TDD (Thermic Disconnecting Device)		-		green (OK) / red (OUT)		
Status indication of EWS		-		-		
Min. ... max. tightening torque		2 ... 3 Nm		2 ... 3 Nm		
Connecting conductor cross section: - wire		4 ... 35 mm ²		4 ... 35 mm ²		
- cord		4 ... 25 mm ²		4 ... 25 mm ²		
Operating temperature range		-40 ... +70 °C		-40 ... +70 °C		
Degree of protection		IP 20		IP 20		
Colour		black, RAL 9011		black, RAL 9011		
Dimensions		97 x 64 x 17,5 mm	97 x 64 x 35 mm	97 x 64 x 17,5 mm	97 x 64 x 35 mm	
Mounting on profiled DIN rail		35 x 7,5 mm		35 x 7,5 mm		
Products comply with norms STN EN 61643-11/A11 IEC 61643-1 VDE 0675-06		typ 1 T_1 + typ 2 T_2 + typ 3 T_3 Class I + Class II + Class III Klasse B + Klasse C + Klasse D		typ 1 T_1 + typ 2 T_2 + typ 3 T_3 Class I + Class II + Class III Klasse B + Klasse C + Klasse D		

PRODUCT SPECIFICATION



Busbars	Order number
2 pol - QB 18 - 2	91.601
3 pol - QB 18 - 3	91.603
4 pol - QB 18 - 4	91.605
6 pol - QB 18 - 6	91.610
8 pol - QB 18 - 8	91.609

TYPE	Order number
POm I LCF 12,5	81.104
POm I R LCF 12,5	81.107
POm I 3 LCF 37,5	81.136
POm I 3 R LCF 37,5	81.137
POm I 4 LCF 50	81.138
POm I 4 R LCF 50	81.139
POm I 3+1 LCF 50	81.140
POm I 3+1 R LCF 50	81.141
POm I N-PE 50	81.101
POm I N-PE 100	81.121

TYPE	Order number
POm I LCF 25	81.124
POm I R LCF 25	81.125
POm I 3 LCF 75	81.130
POm I 3 R LCF 75	81.131
POm I 4 LCF 100	81.128
POm I 4 R LCF 100	81.129
POm I 3+1 LCF 100/25	81.142
POm I 3+1 R LCF 100/25	81.143
POm I 1+1 LCF 50/25	81.150
POm I 1+1 R LCF 50/25	81.151

TYPE	Order number
POm I LCF 30	81.126
POm I R LCF 30	81.127
POm I 3 LCF 90	81.132
POm I 3 R LCF 90	81.133
POm I 4 LCF 120	81.134
POm I 4 R LCF 120	81.135
POm I 1+1 LCF 50/30	81.144
POm I 1+1 R LCF 50/30	81.145
POm I 3+1 LCF 100/30	81.152
POm I 3+1 R LCF 100/30	81.153