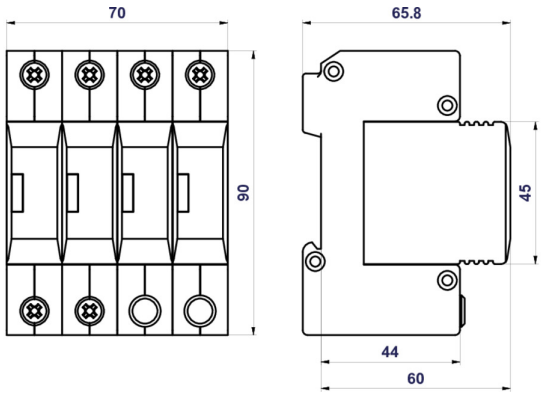

HSA-275/4+0 M

- Surge arresters type T2+T3 ensure the equipotential bonding and reduce switching, induced and residual overvoltage in LV power supply systems.
- The products consist of varistors with big discharge ability.
- In 1+1 and 3+1 configurations they are additionaly combined with a gas discharge tube, which ensures zero leakage current through the PE conductor.
- Installed at the boundaries of LPZ 1 – LPZ 3 into subsidiary switchboards and control panels.
- If the product contains two PE (or PEN) terminals, it must not be used as a PE (PEN) bridge.
- **M** indication specifies a type of construction with removable module.
- **S** indication specifies a version with remote monitoring.

Type		HSA-275/4+0 M
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T2, T3
System		TN-S
Number of poles		4
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U_C	275 V
Maximum discharge current (8/20)	I_{max}	50 kA
Nominal discharge current for class II test (8/20)	I_n	20 kA
Open circuit voltage of the combination wave generator	U_{OC}	6 kV
Total discharge current (8/20) L1+L2+L3+N->PE	I_{Total}	200 kA
Voltage protection level at I_n	U_p	< 1.25 kV
Voltage protection level at U_{OC}	U_p	< 0.85 kV
Temporary overvoltage test value (TOV) for t_T = 5 s	U_T	337 V
Response time	t_A	< 25 ns
Maximal back-up fuse		160 A gL/gG
Short-circuit current rating at maximum back-up fuse	I_{SCCR}	60 kA_{rms}
Lightning protection zone		LPZ1, LPZ2, LPZ3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	ϑ	-40 ÷ 70 °C
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-534:2016 (doesn't apply to „V“ connection) for T2	S	2,5 mm^2 (L, N) 6 mm^2 (PE, PEN)
Clamp fastening range (solid conductor)		1.5 ÷ 25 mm^2
Clamp fastening range (stranded conductor)		1.5 ÷ 16 mm^2
Tightening moment		3 Nm
Installation		On DIN rail 35 mm
Modular width		4 TE
Operating position		Any
Signalling at the device		Optic

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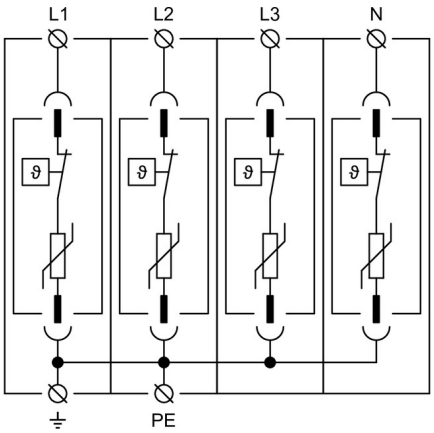
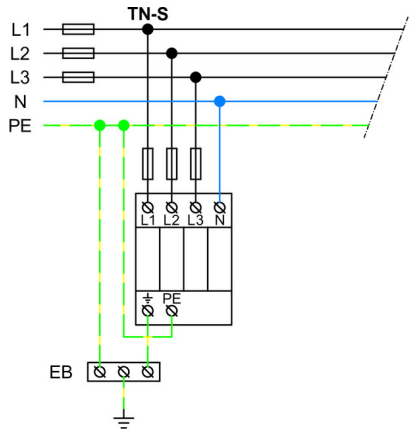
Type		HSA-275/4+0 M
Importance of local signaling		OK – clear target FAULT – red target
Remote signalling		No
Modular design		Yes
Article number of spare module		27 086
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected to low-voltage power systems		IEC 61643-11:2011
Safety of Flammability of Plastic Materials		UL 94
Application standards		
Protection against lightning		IEC 62305:2010
Selection and erection of electrical equipment – Devices for protection against transient overvoltages		HD 60364-5-534:2016
Selection and application principles for SPDs connected to low-voltage power systems		IEC 61643-12:2008
Ordering, packaging and additional data		
Mass	m	420 g
Mass (including the packaging)	m	448 g
Packaging dimensions (H x W x D)		112 x 74 x 73 mm
Packaging value	V	0.61 dm^3
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681116012
Art. number		**27 085**

Internal diagram



Application wiring diagram (installation)



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