

## **HSA-385**

- 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.
- Configurations 1+1 and 3+1 are additionally 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.

HSA-385
T2, T3
TN
1
230 V
385 V
40 kA
15 kA
6 kV
< 1.5 kV
< 1.2 kV
337 V
440 V
< 25 ns
160 A gL/gG
≤ 450 μA
60 kA <sub>rms</sub>
LPZ 1-2, LPZ 2-3
Polyamid PA6, UL94 V-0
IP20
-40 ÷ 70 °C
5 ÷ 95 %
2.5 mm² (L, N) 6 mm² (PE, PEN)
1.5 ÷ 25 mm <sup>2</sup>
$1.5 \div 16 \text{ mm}^2$
3 Nm
On DIN rail 35 mm
1 TE
Any



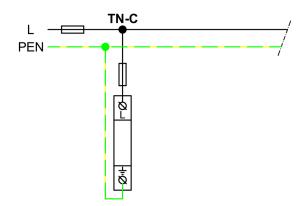
Туре		HSA-385
Product placement environment		Internal
Signalling at the device		Optic
Importance of local signaling		OK – clear target FAULT – red target
Remote signalling		No
Modular design		No
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected to 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 – Switchgear and controlgear		HD 60364-5-53:2022
Selection and application principles for SPDs connected to low-voltage power systems		CLC/TS 61643-12:2009
Ordering, packaging and additional data		
Mass	m	98 g
Mass (including the packaging)	m	109 g
Packaging dimensions (H x W x D)		26 x 98 x 73 mm
Packaging value	V	0.19 dm <sup>3</sup>
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681115367
Art. number		24 557



**The link in the QR code** leads to the online presentation of the **HSA-385**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com** 



## Application wiring diagram (installation)



## Internal diagram

