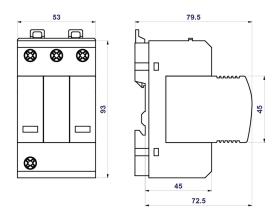




HSA PV 800 M

- Surge arresters type T2 intended for photovoltaic systems (PV) at U or Y connection.
- The advantage of the Y connection versus the U connection is the resistance to the earth connection of the working conductors and zero residual (leakage) current through the PE conductor.
- Particular varistor sectors, connected between the terminals L+, Land PE are equipped with internal disconnectors, which are activated when the varistors fail (overheat) and they are able to interrupt the DC current.
- Special construction of the internal disconnector allows installation without a back-up fuse.



- They are installed on the DC side in PV applications without an external LPS or with an external LPS, where the sufficient distance "s" is observed.
- Suitable for all LPL levels.
- Ensure the equipotential bonding of positive and negative busbars of PV systems and the elimination of transient overvoltage that originates during the atmospheric discharges or switching processes.
- **M** indication specifies a type of construction with removable module.
- S indication specifies a version with remote monitoring.

Туре		HSA PV 800 M
Test class according to EN 61643-11:2012 and EN 61643-31:2019		T2
System		DC
PV system type		Ungrounded
SPD connection type		Y
Maximum continuous operating voltage (+/-)	U _{CPV}	800 V DC
Maximum continuous operating voltage (±/PE)	U _{CPV}	800 V DC
Max. voltage of PV generator $U_{OCSTC} \leq U_{CPV} / 1.2$	U _{OCSTC}	665 V
Short-circuit current rating	I _{SCPV}	10 kA
Total discharge current (8/20) ±->PE	I _{Total}	40 kA
Maximum discharge current (8/20)	I _{max}	40 kA
Nominal discharge current for class II test (8/20)	I _n	20 kA
Voltage protection level at In (+/-)	Up	< 3.3 kV
Voltage protection level at $I_n (\pm/PE)$	U _p	< 2.1 kV
Response time (+/-)	t _A	< 25 ns
Response time (±/PE)	t _A	< 100 ns
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 70 °C
Humidity range	RH	5 ÷ 95 %
Minimum cross-section of connected Cu conductors according to IEC 61643-32:2017 (doesn't apply to "V" connection) for T2	S	2.5 mm² (L+, L-) 6 mm² (PE)
Clamp fastening range (solid conductor)		2.5 ÷ 35 mm ²
Clamp fastening range (stranded conductor)		2.5 ÷ 25 mm ²
Tightening moment		4 Nm
Installation		On DIN rail 35 mm
Modular width		3 TE



Туре		HSA PV 800 M
Operating position		Any
Product placement environment		Internal
SPD failure mode		OCFM
Signalling at the device		Optic
Importance of local signaling		OK – green target FAULT – red target
Remote signalling		No
Modular design		Yes
Article number of the varistor spare module		27 258
Article number of the gas discharge tube spare module		30 072
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs for photovoltaic installations		IEC 61643-31:2018
Safety of Flammability of Plastic Materials		UL 94
Application standards		
Protection against lightning		IEC 62305:2010
Selection and application principles for SPDs connected to photovoltaic installations		IEC 61643-32:2017
Selection and application principles for SPDs connected to photovoltaic installations		CLC/TS 51643-32:2020
Low-voltage electrical installations - Photovoltaic (PV) systems		HD 60364-7-712:2016
Ordering, packaging and additional data		
Mass	m	396 g
Mass (including the packaging)	m	415 g
Packaging dimensions (H x W x D)		60 x 111 x 87 mm
Packaging value	V	0.58 dm ³
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681187326
Art. number		27 254



The link in the QR code leads to the online presentation of the **HSA PV 800 M**. 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)



