

PIIM PV 1000 Vseries

- Surge arresters type T2 intended for photovoltaic systems (PV).
- Products are designed in a Y-type connection, which is resistant to earth faults of working conductors.
- Particular varistor sectors, connected between the terminals L+, L- and 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 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.
- **DS** indication specifies a version with remote monitoring.

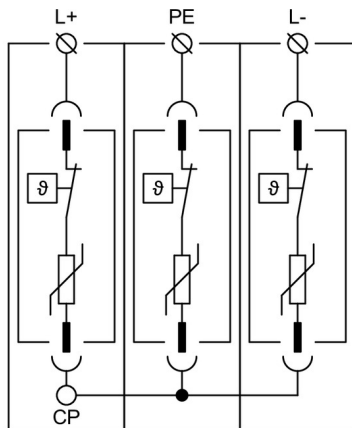
Type		PIIM PV 1000 Vseries
Test class according to EN 61643-11:2012 and EN 61643-31:2019		T2
System		DC
Maximum continuous operating voltage	U_{CPV}	1 050 V DC
Max. voltage of PV generator $U_{ocstc} \leq U_{cpv} / 1,2$	U_{OCSTC}	870 V
Short-circuit current rating	I_{SCPV}	10 kA
Application		L+/L-, L±/PE
Maximum discharge current (8/20)	I_{max}	40 kA
Nominal discharge current for class II test (8/20)	I_n	15 kA
Voltage protection level at I_n	U_p	< 3.8 kV
Response time	t_A	< 25 ns
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)		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
Operating position		Any
Signalling at the device		Optic
Importance of local signalling		OK – green target FAULT – red target
Remote signalling		No
Modular design		Yes
Article number of spare module		27 055

Type		PIIIM PV 1000 Vseries
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		CLC/TS 50539-12:2010
Low-voltage electrical installations – Photovoltaic (PV) systems		HD 60364-7-712:2016
Ordering, packaging and additional data		
Mass	m	420 g
Mass (including the packaging)	m	439 g
Packaging dimensions (H x W x D)		111 x 60 x 87 mm
Packaging value	V	0.58 dm ³
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		



Art. number	27 054
--------------------	---------------

Internal diagram



Application wiring diagram (installation)

