

## **PIVM PV 600 Vseries**

- Lightning impulse current and surge arresters type T1+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-, 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 with external LPS, where a sufficient distance "s" is not observed.
- Suitable for level LPL III or IV.
- Ensure the equipotential bonding of plus and minus busbars of PV systems and the elimination of transient overvoltage resulting from the atmospheric discharges (including direct lightning strike to the PV system) or switching processes.
- **M** indication specifies a type of construction with removable module.
- **DS** indication specifies a version with remote monitoring.

Туре		PIVM PV 600 Vseries
Test class according to EN 61643-11:2012 and EN 61643-31:2019		T1, T2
System		DC
PV system type		Ungrounded
SPD connection type		Y
Maximum continuous operating voltage (+/-)	U <sub>CPV</sub>	600 V DC
Maximum continuous operating voltage (±/PE)	U <sub>CPV</sub>	600 V DC
Max. voltage of PV generator $U_{OCSTC} \le U_{CPV} / 1.2$	U <sub>OCSTC</sub>	500 V
Short-circuit current rating	I <sub>SCPV</sub>	10 kA
Impulse discharge current for class I test (10/350)	l <sub>imp</sub>	6.5 kA
Charge	Q	3.25 As
Specific energy for class I test	W/R	10.56 kJ/Ω
Maximum discharge current (8/20)	I <sub>max</sub>	40 kA
Nominal discharge current for class II test (8/20)	I <sub>n</sub>	20 kA
Voltage protection level at In (L+/L-)	Up	< 2.6 kV
Response time	t <sub>A</sub>	< 25 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 T1	S	6 mm² (L+, L-) 16 mm² (PE)
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 <sup>2</sup>
Clamp fastening range (stranded conductor)		2.5 ÷ 25 mm <sup>2</sup>
Tightening moment		4 Nm
Installation		On DIN rail 35 mm



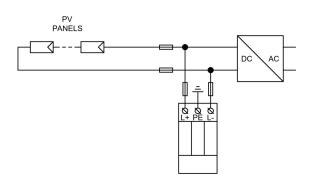
Modular widthImage: setting positionSTEOperating positionImage: setting positionAnyProduct placement environmentImage: setting positionImage: setting positionSPD failure modeImage: setting positionCCFMSignalling at the deviceImage: setting positionOpticImportance of local signalingImage: setting positionOK - green target FAULT - red targetRemote signallingImage: setting positionNoModular designImage: setting positionYesArticle number of spare moduleImage: setting position positionYesArticle number of spare moduleImage: setting position posi	Туре		PIVM PV 600 Vseries
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	Customs tariff no.		85363010
Art. number 16 070	EAN code		8590681160701
	Art. number		16 070



**The link in the QR code** leads to the online presentation of the **PIVM PV 600 Vseries**. 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

