

VPU II 2 PV 600V DC

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Type II surge voltage arrester for use in photovoltaic applications

- Pluggable arrester
- Suitable for protecting DC systems
- High energy absorption with short response time
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Coded voltage level
- Installation in distribution board
- Thermal protection function

General ordering data

Version	Surge voltage arrester, Low voltage, without telecomm. contact
Order No.	1351340000
Type	VPU II 2 PV 600V DC
GTIN (EAN)	4050118158731
Qty.	1 pc(s).
Replacement parts	1351320000

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	94 mm	Height (inches)	3.701 inch
Width	35.6 mm	Width (inches)	1.402 inch
Mounting dimension - height	75 mm	Net weight	290 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
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General data

Colour	black, orange	Design	Installation housing; 2TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
UL 94 flammability rating	V-0	Version	without telecomm. contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Photovoltaic technical data

Conditions and requirements	EN 50539-11	Discharge current I_n (8/20 μs)	12.5 kA
Discharge current, max. (8/20 μs)	40 kA	Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	600 V DC
Operating height in the grounded PV system	≤ 2000 m	Operating height in ungrounded PV system	≤ 2000 m
PV system voltage, max. U_{cpv}	600 V	Protection level U_p (+/-)	≤ 4.4 kV
Protection level U_p (+/PE)	≤ 2.2 kV	Protection level U_p (-/PE)	≤ 2.2 kV
Requirements class	Type II	Short-circuit current I_{SCPV}	200 A
Standards	EN 50539-11	Total discharge current I_{total} (8/20 μs)	40 kA

Rated data IEC / EN

Discharge current I_n (8/20 μs) wire-PE	20 kA	Discharge current, max. (8/20 μs)	40 kA
Leakage current at U_n	30 μA	Max. continuous voltage, U_c (DC)	600 V
Number of poles	2	PV voltage, acc. to IEC 60364-7-712	< 600 V
Rated voltage (DC)	600 V	Response time	≤ 25 ns
SPD type	T2	Signalling contact	No
Standards	EN 50539-11	Voltage type	DC

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Technical data

Connection data

Stripping length	15 mm	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	1.5 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	1.5 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	50 mm ²

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ECLASS 9.0	27-13-08-05
ECLASS 9.1	27-13-08-05	ECLASS 10.0	27-13-08-05
ECLASS 11.0	27-13-08-05	ECLASS 12.0	27-17-90-90

Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of V0 material, the arrester serves as overvoltage protection and is used in applications according to IEC 50539-12. The use of a high-performance varistor meets the inspection requirements for Class II surge protection systems on the basis of the standards. The arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 600 VAC In/ max (8/20 µs): 20/40 kA, protection level < 2.2 kV I, type: Weidmüller VPU II 2 PV 600 V/40 kA, Order No. 1351340000 or equivalent	Short specification	Class II arrester with In/Imax: 20/40 kA suitable for 600 V PV systems. Protection level < 2.2 kV. Type: Weidmüller VPU II 2 PV 600 V/40 kA Order no. 1351340000 or equivalent
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Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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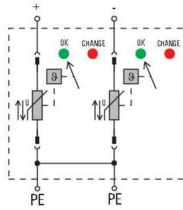
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Drawings

Electric symbol



Circuit diagram