

VPU I 1 N-PE 440V/50KA

Weidmüller Interfaces GmbH & Co. KG

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Type I lightning/surge protection Suitable as N-PE arrester

- Pluggable N-PE arrester
- High energy absorption with short time to sparkover
- Installation in distribution board
- Lower residual voltage

General ordering data

Version	Surge voltage arrester, Low voltage, without telecomm. contact, TT nur für N-PE
Order No.	1351950000
Type	VPU I 1 N-PE 440V/50KA
GTIN (EAN)	4050118158250
Qty.	1 pc(s).
Replacement parts	1351980000

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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	17.8 mm	Width (inches)	0.701 inch
Mounting dimension - height	75 mm	Net weight	126 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C
Humidity	5 - 95% rel. humidity		

General data

Colour	black, blue	Design	Installation housing; 1TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment	Power distribution	Suitable for	Count-in installation (leakage current free)
UL 94 flammability rating	V-0	Version	without telecomm. contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV
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Rated data IEC / EN

Discharge current I_{max} (8/20 μ s) N-PE	100 kA	Discharge current I_n (8/20 μ s) N-PE	50 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	Not required
Leakage current at U_n	1 μ A	Lightning test current, I_{imp} (10/350 μ s) (N-PE)	50 kA
Low voltage network	TT nur für N-PE	Max. continuous voltage, U_c (N-PE)	440 V
Number of poles	1	Protection level U_p at I_N (N-PE)	≤ 2.7 kV
Rated voltage (AC)	400 V	Requirements category acc. to IEC 61643-11	Type I, Type II
Requirements class, acc. to EN 61643-11	T1, T2	Response time	≤ 100 ns
Signalling contact	No	Standards	IEC61643-11, EN61643-11
Suitable for	Count-in installation (leakage current free)	Temporary surge voltage (over-voltage) - TOV	1,200 V
Voltage type	AC		

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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.	4 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	2.5 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross section, finely stranded, min.	2.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm ²
Connection cross-section, stranded, min.	2.5 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	Pluggable Class I arrester made from V0 material, for LPL I/II/III/IV, with 50 kA, suitable for TN-S, IT or TT mains systems for protection between N and PE. Protection level < 2.7 kV. Type: Weidmüller VPU I 1 N-PE 400 V/50 kA, Order No. 1351950000 or equivalent	Short specification	Class I arrester for LPL I/II/III/IV, with 50 kA, suitable for TN-S, IT or TT mains systems for protection between N and PE. Protection level < 2.7 kV. Type: Weidmüller VPU I 1 N-PE 400 V/50 kA, Order No. 1351950000 or equivalent
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Approvals

Approvals



ROHS

Conform

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Approval/Certificate/Document of Conformity	EAC VPU SERIES EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD
Catalogues	Catalogues in PDF-format
Brochures	

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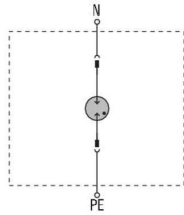
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Drawings

Electric symbol



Schematic circuit diagram