

## VPU I 1 N-PE 440V/100KA

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com



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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.	<a href="#">135197000</a>
Type	VPU I 1 N-PE 440V/100KA
GTIN (EAN)	4050118158243
Qty.	1 pc(s).
Replacement parts	<a href="#">135199000</a>

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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	266 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; 2TE, 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 $\mu$ s) N-PE	100 kA	Discharge current $I_n$ (8/20 $\mu$ s) N-PE	100 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Fuse	Not required
Leakage current at $U_n$	1 $\mu$ A	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) (N-PE)	100 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)	≤ 3 kV
Rated load current $I_L$	100 A	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

## 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 <sup>2</sup>
Clamping range, min.	4 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	2.5 mm <sup>2</sup>	Wire cross-section, solid, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	25 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm <sup>2</sup>
Connection cross-section, stranded, min.	2.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	50 mm <sup>2</sup>

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Catalogue status 18.02.2023 / We reserve the right to make technical changes.

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## 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 100 kA, suitable for TN-S, IT or TT mains systems for protection between N and PE. Protection level < 2 kV. Type: Weidmüller VPU I 1 N-PE 260 V/100 kA Order No. 1351920000 or equivalent	Short specification	Class I arrester for LPL I/II/III/IV with 100 kA suitable for TN-S, IT or TT mains systems for protection between N and PE. Protection level < 2 kV. Type: Weidmüller VPU I 1 N-PE 400 V/100 kA Order no. 1351970000 or equivalent
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## Approvals

Approvals



ROHS

Conform

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

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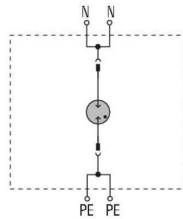
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**Drawings**

**Electric symbol**



Schematic circuit diagram