

VPU series
VPU II 1+1 R 280V/40KA

Weidmüller Interface GmbH & Co. KG
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Type II/III surge protection U_c : 280 V
Suitable for 230/400 V mains systems

- Pluggable arrester
- Coded voltage level
- High energy absorption with short time to sparkover
- No follow current
- Installation in distribution board
- Thermal protection function
- Co-ordination with VPU Type I

General ordering data

Type	VPU II 1+1 R 280V/40KA
Order No.	1352640000
Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase
GTIN (EAN)	4050118157710
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	35.6 mm	Width (inches)	1.402 inch
Height	106 mm	Height (inches)	4.173 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	257 g

Temperatures

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

Connection data, remote alert

Connection type	PUSH IN	Stripping length	8 mm
Cross-section for connected wire, solid core, min.	0.14 mm ²	Cross-section for connected wire, solid core, max.	1.5 mm ²

General data

Colour	Black, Orange, Blue	Design	Installation housing; 2TE, Insta IP 20
Mounting rail	TS 35	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Segment	Power distribution
UL 94 flammability rating	V-0	Version	with remote contact

Insulation coordination acc. to EN 50178

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

Combined pulse U_{OC}	10 kV	Discharge current I_{max} (8/20 μ s) wire-PE	40 kA
Discharge current I_{max} (8/20 μ s) N-PE	40 kA	Discharge current I_n (8/20 μ s) N-PE	20 kA
Discharge current I_n (8/20 μ s) wire-PE	20 kA	Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	125 A gL (if back-up fuse > 125 A)	Leakage current at U_n	30 μ A
Max. continuous voltage, U_c (AC)	280 V	Max. continuous voltage, U_c (N-PE)	260 V
No. of poles	2	Protection level U_p at I_N (L/N-PE)	≤ 1.55 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	Rated voltage (AC)	230 V
Requirements category acc. to IEC 61643-11	Type II, Type III	Requirements class, acc. to EN 61643-11	T2, T3
Response time	≤ 25 ns, ≤ 100 ns	Short-circuit current rating I_{SCCR}	25 kA
Signalling contact	250 V 1A 1CO	Temporary surge voltage (over-voltage) - TOV	438 V
Voltage type	AC	low voltage network	Single-phase

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Connection data

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
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 3.0	EC000941	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-14-02-01	eClass 9.1	27-13-08-05

Product information

Descriptive text accessories Pluggable spare arrester L-N VPU II 0 280 V/40 kA-1352570000,
 N-PE VPU II 0 N-PE 260 V/40 kA-1351180000

Approvals

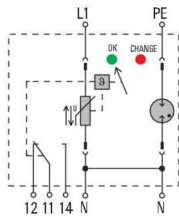
Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN_WSCAD
User Documentation	Instruction sheet

Data sheet**VPU series**
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Circuit diagram