

VPU AC II+III 1+1 R 440/20 S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase, TN, TT, IT with N, IT without N
Order No.	2908510000
Type	VPU AC II+III 1+1 R 440/20 S
GTIN (EAN)	4099986190924
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	70 mm	Depth (inches)	2.756 inch
Height	105 mm	Height (inches)	4.134 inch
Width	18 mm	Width (inches)	0.709 inch
Net weight	150.5 g		

Temperatures

Operating temperature	-40 °C...85 °C
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Connection data, remote alert

Connection type	Screw connection	Cross-section for connected wire, solid core, max.	1.5 mm ²
Cross-section for connected wire, solid core, min.	0.2 mm ²	Max. torque	0.4 Nm
Stripping length	5 mm		

General data

Colour	grey	Design	Installation housing; 1TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
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}	6 kV	Discharge current (type III)	3 kA
Discharge current I_{max} (8/20μs) N-PE	40 kA	Discharge current I_{max} (8/20μs) wire-PE	20 kA
Discharge current I_n (8/20μs) N-PE	20 kA	Discharge current I_n (8/20μs) wire-PE	10 kA
Energy coordination (≤10 m)	Type II, Type III	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	No Fuse necessary ≤100 A gG
Low voltage network	Single-phase, TN, TT, IT with N, IT without N	Max. continuous voltage, U_c (AC)	440 V
Max. continuous voltage, U_c (N-PE)	255 V	Number of poles	2
Protection level U_p at I_N (L-PE) (type III)	≤1 kV	Protection level U_p at I_N (L/N-PE)	≤ 1.7 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	Protection level U_p at I_N (N-PE) (type III)	≤1,4 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
Short-circuit current rating I_{SCCR}	25 kA	Signalling contact	250 V / 0,5 A
Standards	IEC 61643-11, EN 61643-11	Temporary surge voltage (over-voltage) - TOV	440 V
Voltage type	AC		

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Connection data

Conductor connection cross-section PE, solid, max.	35 mm ²
Stripping length	15 mm
Type of connection	Screw connection
Tightening torque, min.	1.2 Nm
Clamping range, rated connection	10 mm ²
Clamping range, max.	35 mm ²
Wire cross-section, solid, max.	10 mm ²
Wire connection cross section, finely stranded, max.	6 mm ²
Connection cross-section, stranded, max.	10 mm ²

Conductor connection cross-section PE, stranded, max.	35 mm ²
Wire connection method	Screw connection
Stripping length, rated connection	15 mm
Tightening torque, max.	2 Nm
Clamping range, min.	2.5 mm ²
Wire cross-section, solid, min.	2.5 mm ²
Wire connection cross section, finely stranded, min.	2.5 mm ²
Connection cross-section, stranded, min.	2.5 mm ²

Guarantee

Time interval	5 years
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Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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	ECLASS 13.0	27-17-90-90
ECLASS 14.0	27-17-90-90		

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

Important note

Product information	For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V
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Approvals

ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	STEP
Tender specification	Ausschreibungstext DE
User Documentation	Beipackzettel / Instruction Sheet
Catalogues	Catalogues in PDF-format

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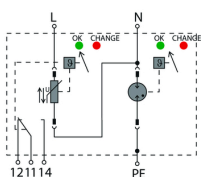
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Drawings

Electric symbol



Schematic circuit diagram

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Accessories**Spare arrester****General ordering data**

Type	VPU AC II+III 0 L/N-PE ...	Version
Order No.	2908550000	Surge voltage arrester, Low voltage, Spare arrester, TN-S, TT
GTIN (EAN)	4099986190979	
Qty.	1 pc(s).	

Crosshead screwdriver Phillips

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

Type	SDIK PHO X 60	Version
Order No.	2749880000	Screwdriver, Blade width (B): 0 mm, 60 mm, Blade thickness (A): 0
GTIN (EAN)	4050118897081	
Qty.	1 pc(s).	