

VPU AC II+III 2 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-S
Order No.	2908450000
Type	VPU AC II+III 2 R 440/20 S
GTIN (EAN)	4099986190658
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	70 mm	Depth (inches)	2.7559 inch
Height	105 mm	Height (inches)	4.1338 inch
Width	18 mm	Width (inches)	0.7087 inch
Net weight	165 g		

Temperatures

Storage temperature		Ambient temperature	-40 °C...85 °C
Operating temperature	-40 °C...85 °C	Humidity	5 - 95% rel. humidity

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Connection data, remote alert

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

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	with remote contact	Design	Installation housing; 1TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	grey
Protection degree	IP20 in installed state	Mounting rail	TS 35
Operating altitude	≤ 2000 m, ≤ 4000 m		

Insulation coordination acc. to EN 50178

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

Number of poles	2	Combined pulse UOC	6 kV
Signalling contact	250 V / 0,5 A	Rated voltage (AC)	230 V
Low voltage network	Single-phase, TN-S	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	440 V	Fuse protection	No Fuse necessary ≤100 A gG
Response time / fallback time	≤ 25 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Standards	IEC 61643-11, EN 61643-11

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Requirements class, acc. to EN 61643-11	T2, T3	Requirements category acc. to IEC 61643-11	Type II, Type III
Max. continuous voltage, U_c (AC)	440 V	Energy coordination (≤ 10 m)	Type II, Type III
Discharge current I_n (8/20 μ s) wire-PE	10 kA	Discharge current I_{max} (8/20 μ s) wire-PE	20 kA
Protection level U_p at IN (L/N-PE)	≤ 1.7 kV	Short-circuit current rating ISCCR	25 kA
Discharge current (type III)	3 kA	Integrated back-up fuse	No
Protection level U_p at IN (L-PE) (type III)	≤ 1 kV		

Connection data

Stripping length	13 mm	Conductor connection cross-section PE, stranded, max.	35 mm ²
Conductor connection cross-section PE, solid, max.	35 mm ²	Wire connection method	Screw connection
Type of connection	Screw connection	Stripping length, rated connection	13 mm
Tightening torque, min.	1.2 Nm	Tightening torque, max.	2 Nm
Clamping range, rated connection	10 mm ²	Clamping range, min.	2.5 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	2.5 mm ²
Wire cross-section, solid, max.	10 mm ²	Wire connection cross section, finely stranded, min.	2.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Connection cross-section, stranded, min.	2.5 mm ²
Connection cross-section, stranded, max.	10 mm ²		

Electrical data

Voltage type	AC
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General data

Number of poles	2	Protection degree	IP20 in installed state
Colour	grey		

Guarantee

Time interval	5 years
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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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Classifications

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-12-02
ECLASS 15.0	27-17-12-02		

Electric symbol



Schematic circuit diagram

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Accessories

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 PH0 X 60	Version	
Order No.	2749880000	Screwdriver, Blade width (B): 0 mm, 60 mm, Blade thickness (A): 0	
GTIN (EAN)	4050118897081		
Qty.	1 ST		

Spare arrester



General ordering data

Type	VPU AC II+III 0 L-N 440...	Version	
Order No.	2908540000	Surge voltage arrester, Low voltage, Spare arrester, TN-S, TT	
GTIN (EAN)	4099986190955		
Qty.	1 ST		