Data sheet

VPU AC II+III 2 440/20 S

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



General ordering data

Version	Surge voltage arrester, Low voltage, Single-phase, TN-S
Order No.	2908440000
Type	VPU AC II+III 2 440/20 S
GTIN (EAN)	4099986190641
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	70 mm	Depth (inches)	2.7559 inch
Height	97 mm	Height (inches)	3.8189 inch
Width	18 mm	Width (inches)	0.7087 inch
Net weight	162.5 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

Connection type	PUSH IN

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
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

Rated data IEC / EN

Number of poles	2	Combined pulse UOC	6 kV
Signalling contact	No	Rated voltage (AC)	230 V
Low voltage network	Single-phase, TN-S	Voltage type	AC
Temporary surge voltage (overvoltage)	440 V	Fuse protection	No Fuse neccessary ≤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
Requirements class (EN 61643-11)	T2, T3	Requirements category acc. to IEC 61643-11	Type II, Type III
Max. continuous voltage, Uc (AC)	440 V	Energy coordination (≤10 m)	Type II, Type III
Discharge current In (8/20µs) wire-PE	10 kA	Discharge current Imax (8/20µs) wire-PE	20 kA
Protection level Up at IN (L/N-PE)	≤ 1.7 kV	Short-circuit current rating ISCCR	25 kA

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Discharge current (type III)	3 kA	With integrated back-up fuse	No
Protection level Up at IN (L-PE) (type III)	≤1 kV		

Connection data

Stripping length	15 mm	Conductor connection cross-section stranded (PE), max.	35 mm²
Wire connection cross-section, solid (L / N), max.	10 mm²	Wire connection cross-section, finely stranded (PE), min.	2.5 mm²
Wire connection cross-section, finely stranded (PE), max.	25 mm²	Wire connection cross-section, stranded (PE), min.	2.5 mm²
Wire connection cross-section, stranded (L / N), max.	10 mm²	Wire connection cross-section, solid (PE), min.	2.5 mm²
Wire connection cross-section, solid (PE), max.	35 mm²	Wire connection cross-section, finely stranded (L / N), max.	6 mm²
Wire connection cross-section, stranded (PE), max.	35 mm²	Wire connection cross-section, stranded (L / N), min.	1.5 mm²
Conductor connection cross-section solid (PE), max.	35 mm²	Wire connection cross-section, solid (L / N), min.	1.5 mm²
Wire connection cross-section, finely stranded (L / N), min.	1.5 mm²	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 mm²	Conductor cross-section (rated connection), min.	2.5 mm²
Conductor cross-section (rated connection), max.	35 mm²	Wire cross-section, solid, max.	10 mm²
Wire connection cross section, finely stranded, min.	2.5 mm²	Wire connection cross-section, finely stranded, max.	25 mm²
Connection cross-section, stranded, min.	2.5 mm²	Connection cross-section, stranded, max.	10 mm²

Electrical data

Voltage type	AC

General data

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

Guarantee

Time interval	5 years

Important note

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

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		

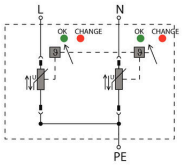
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Drawings

Electric symbol



Schematic circuit diagram