

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com



















General ordering data

Version	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-C-S, TN-S
Order No.	<u>2619200000</u>
Туре	VPU AC I 4 R 440/25 LCF
GTIN (EAN)	4050118634631
Qty.	1 items

Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE 0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

1 Catalogue status / Drawings





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Technical data

Approvals					
Approvals	"				
	7)				
ROHS	Conform				
Dimensions and weights					
Depth	93 mm	Depth (inches)	3.6614 inch		
Height	104.5 mm	Height (inches)	4.1142 inch		
Width	144 mm	Width (inches)	5.6693 inch		
Net weight	25 g				
Temperatures					
Storage temperature	-40 °C85 °C	Operating temperature	-40 °C85 °C		
Storage temperature Humidity	5 - 95% rel. humidity	Operating temperature	-40 C65 C		
Probability of failure	,				
Trobublicy of fallars					
MTBF	15 a				
Environmental Product Comp	liance				
RoHS Compliance Status	Compliant without exemption	on			
REACH SVHC	No SVHC above 0.1 wt%				
Connection data, remote aler	t				
Cross-section for connected wire, solid	0.14 mm²	Stripping length	8 mm		
core, min.			4.5		
Connection type	Screw connection, pluggable	Cross-section for connected wire, solid core, max.	1.5 mm ²		
General data					
Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution		
Version	Surge protection, with remote contact	Design	Installation housing; 8 TE, Insta IP 20		
UL 94 flammability rating	V-0	Colour	black		
Suitable for	Count-in installation (leakage current free)	Protection degree	IP20 in installed state		
Mounting rail	TS 35	Operating altitude	≤ 2000 m		
Insulation coordination acc. t	o EN 50178				
Surge voltage category	III	Pollution severity	2		
Rated data IEC / EN		<u> </u>			
_					
Number of poles	4	Leakage current at Un	5 μΑ		
Signalling contact	250 V 1A 1CO	Rated voltage (AC)	400 V		
Low voltage network	TN-C-S, TN-S	Protection level Up at IN (N-PE)	≤ 2.5 kV		
Voltage type	AC	Temporary surge voltage (over-voltage) - TOV	- 762 V		

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Technical data

Fuse protection	250 A gL (if back up fuse > 250 A)	Response time / fallback time	≤ 25 ns	
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz	
Suitable for	Count-in installation (leakage current free)	Standards	IEC 61643-11, EN 61643-11	
Lightning test current limp (10/350 μs (L-PE)) 25 kA	Requirements class, acc. to EN 61643-11	T1, T2	
Requirements category acc. to IEC 61643-11	Type I, Type II	Max. continuous voltage, Uc (AC)	440 V	
Mains voltage	400 V / 690 V	Energy coordination (≤10 m)	Type I, Type II, Type III	
Rated load current IL	100 A	Discharge current In (8/20µs) wire-PE	25 kA	
Discharge current Imax (8/20µs) wire-PE100 kA		Protection level Up at IN (L/N-PE)	≤ 2.5 kV	
Short-circuit current rating ISCCR	50 kA	Follow-on current extinguishing capability Ifi	Not available due for technical reasons	
Integrated back-up fuse	No			
Connection data				
Stripping length	13 mm	Wire connection method	Screw connection	
Type of connection	Screw connection	Stripping length, rated connection	13 mm	
Tightening torque, min.	2 Nm	Tightening torque, max.	3 Nm	
Clamping range, rated connection	16 mm ²	Clamping range, min.	6 mm ²	
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	6 mm ²	
Wire cross-section, solid, max.	35 mm²	Wire connection cross section, finely stranded, min.	6 mm²	
Wire connection cross section, finely stranded, max.	35 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	6 mm²	
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm²	Connection cross-section, stranded, mi	n. 6 mm²	
Connection cross-section, stranded, max.	35 mm ²			
Electrical data				
Voltage type	AC			
General data				
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Number of poles	4	Protection degree	IP20 in installed state	
Colour	black			
Guarantee			_	
Time interval	5 years			
Important note				
	F : DO " :	I I CORAT NUMBER	D / 05 D0 4500 V	
Product information		please use the fuse of SIBA Type NH2XL a		
Notes	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).			
Classifications				
ETIM 7.0	FC0014F7	FTIM 9 O	FC0014E7	
ETIM 7.0	EC001457	ETIM 8.0	EC001457	
ETIM 9.0	EC001457	ETIM 10.0	EC001457	

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ECLASS 12.0

ECLASS 14.0

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ECLASS 13.0

ECLASS 15.0

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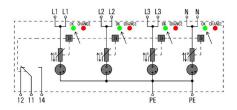
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Drawings

Electric symbol



Schematic circuit diagram