

VPU AC I 1 R 480/10

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

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E354261

Dimensions and weights

Depth	91 mm	Depth (inches)	3.5827 inch
Height	104.5 mm	Height (inches)	4.1142 inch
Width	18 mm	Width (inches)	0.7087 inch
Net weight	206 g		

Temperatures

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

Probability of failure

MTBF	15 a
------	------

Environmental Product Compliance

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

Rated data UL

Ambient temperature (operational), max. 85 °C	Rated Voltage UN	400 V
MCOV (L/N-PE)	SCCR	200 kA
In	Category	SPD TYPE 1CA
Ambient temperature (operational), min. -40 °C	Certificate No. (cURus)	E354261
MODE	VPR (L-PE)	1500 V
Voltage type		

Connection data, remote alert

Cross-section for connected wire, solid core, min.	0.14 mm ²	Stripping length	8 mm
Connection type	PUSH IN	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; 1TE, Insta IP 20
UL 94 flammability rating	V-0	Colour	orange, black
Protection degree	IP20 in installed state	Mounting rail	TS 35
Operating altitude	≤ 4000 m		

VPU AC I 1 R 480/10

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

www.weidmueller.com

Technical data

Insulation coordination acc. to EN 50178

Surge voltage category	IV	Pollution severity	2
------------------------	----	--------------------	---

Rated data IEC / EN

Number of poles	1	Leakage current at U_n	0.6 mA
Signalling contact	250 V 1A 1CO	Rated voltage (AC)	400 V
Low voltage network	Single-phase, TN	Voltage type	AC
Temporary surge voltage (over-voltage) - TOV	762 V	Response time / fallback time	≤ 25 ns
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Standards	IEC 61643-11, EN 61643-11, UL 1449	Lightning test current limp (10/350 μs) (L-PE)	10 kA
Requirements class, acc. to EN 61643-11	T1, T2	Requirements category acc. to IEC 61643-11	Type I, Type II
Max. continuous voltage, U_c (AC)	480 V	Mains voltage	400 V / 690 V
Energy coordination (≤10 m)	Type I, Type II, Type III	Discharge current I_n (8/20μs) wire-PE	20 kA
Discharge current I_{max} (8/20μs) wire-PE	50 kA	Protection level Up at IN (L/N-PE)	≤ 2.1 kV
Short-circuit current rating ISCCR	50 kA	Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Integrated back-up fuse	No		

Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	Stripping length, rated connection	18 mm
Tightening torque, min.	3 Nm	Tightening torque, max.	4.5 Nm
Clamping range, rated connection	16 mm ²	Clamping range, min.	1.5 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	1.5 mm ²
Wire cross-section, solid, max.	35 mm ²	Wire connection cross section, finely stranded, min.	1.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

Electrical data

Voltage type	AC
--------------	----

General data

Number of poles	1	Protection degree	IP20 in installed state
Colour	orange, black		

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
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).

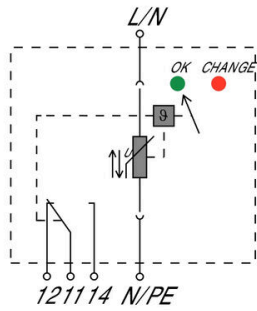
Technical data

Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-12-04
ECLASS 15.0	27-17-12-04		

Drawings

Electric symbol



Schematic circuit diagram