

MCZ OVP CL 48VUC 1,25A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Slimline overvoltage protection terminal with tension clamp connection

- 6 mm Slimline fine overvoltage protection
- fast wiring thanks to TS contact and tension clamp connections
- can be cross-connected

General ordering data

Version	Surge protection for instrumentation and control, Surge protection for measurement and control
Order No.	8449040000
Type	MCZ OVP CL 48VUC 1,25A
GTIN (EAN)	4032248045648
Qty.	10 pc(s).

Creation date September 18, 2022 3:39:37 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

MCZ OVP CL 48VUC 1,25A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	63.5 mm	Depth (inches)	2.5 inch
Height	91 mm	Height (inches)	3.583 inch
Width	6 mm	Width (inches)	0.236 inch
Net weight	27.5 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...60 °C
---------------------	----------------	-----------------------	----------------

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	c9db83e7-2b25-44e1-8d26-da64d426373f
------------	----------------	------	--------------------------------------

Rated data UL

Certificate No. (UL)	E311081
----------------------	---------

General data

Colour	black	Design	Terminal
Height with TS 35	63.5 mm	Protection degree	IP20
Rail	TS 35	Segment	Measurement - Monitoring - Setting
UL 94 flammability rating	V-0	Version	Surge protection for measurement and control

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
--------------------	---	------------------------	-----

Rated data IEC / EN

Discharge current, I_{imp} (10/350 μ s)	1 kA	Discharge current, max. (8/20 μ s)	5 kA
Fuse	1.3 A	Inductance L and L1	35 μ H
Lightning test current I_{imp} (10/350 μ s)	1 kA	Limiting frequency (-3 dB) at load resistance	500 kHz 240 Ω
Load resistance (for limiting frequency)	240 Ω	Max. continuous voltage, U_c (AC)	53 V
Operating current, I_{max}	1.25 A	Operating voltage	53 A
Protection level on output side Wire-PE 1kV/ μ s, typically	82 V	Protection level on output side Wire-PE 8/20 μ s, typically	150 V
Protection level on output side Wire-wire 1 kV/ μ s, typically	82 V	Protection level on output side Wire-wire 8/20 μ s, typically	150 V
Rated current I_N	1.25 A	Rated voltage (AC)	48 V
Rated voltage (DC)	48 V	Rated voltage (DC), max.	70 V
Requirements category acc. to IEC 61643-21	D1	Response time	\leq 100 ps
Standards	HART-compatible	Voltage type	AC/DC
Volume resistance	1.00 Ω		

MCZ OVP CL 48VUC 1,25A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Connection data

Cross-section	1.5 mm ²	Stripping length	8 mm
Wire connection method	Spring connection	Type of connection	Tension-clamp connection
Stripping length, rated connection	8 mm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 16
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	1.5 mm ²
Wire cross-section, solid, min. (AWG)	AWG 26	Wire cross-section, solid, max. (AWG)	AWG 16
Wire connection cross section, finely stranded, min.	0.5 mm ²	Wire connection cross section, finely stranded, max.	1.5 mm ²
Wire cross-section, finely stranded, min. (AWG)	AWG 26	Wire cross-section, finely stranded, max. (AWG)	AWG 16
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²
Blade size	0.6 x 3.5 mm		

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ECLASS 9.0	27-13-08-07
ECLASS 9.1	27-13-08-07	ECLASS 10.0	27-13-08-07
ECLASS 11.0	27-13-08-07	ECLASS 12.0	27-17-90-90

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E311081

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

Data sheet

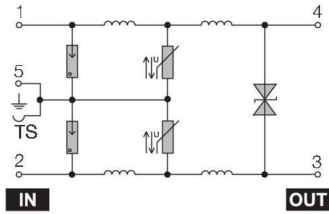
MCZ OVP CL 48VUC 1,25A

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

www.weidmueller.com

Drawings

Electric symbol



Circuit diagram

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Weidmuller:](#)

[8449040000](#)