

PRO-M
CP M DM20
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

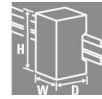
D-32758 Detmold

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Diode module for decoupling outputs of switched-mode power units. Switched-mode power units have a disadvantage - when multiple secondary circuits are switched in parallel, an opposite negative influence can effect the individual circuit. This can damage the devices. The CP DM diode modules can help here. They are used for doubling the output, redundancy operation, supplying critical loads and protecting against energy recovery.

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2019-06-30
Type	CP M DM20
Order No.	1222210010
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4050118176131
Qty.	1 pc(s).
Alternative product	2486100000

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Technical data
Dimensions and weights

Width	34 mm	Width (inches)	1.339 inch
Height	130 mm	Height (inches)	5.118 inch
Depth	150 mm	Depth (inches)	5.905 inch
Net weight	500 g		

Temperatures

Humidity	5...95 %, no condensation	Operating temperature, max.	70 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...70 °C
Storage temperature	-40 °C...85 °C		

Input

DC input voltage range	18...30 V DC	Input current	2 x 10 A or 1 x 20 A
Rated input voltage	24 V DC	Wire connection method	Screw connection

output

Continuous output current @ U_{Rated}	24 A @ 45 °C, 22.5 A @ 55 °C, 15 A @ 70 °C	Output current, max.	24 A
Output voltage	Input voltage - 0.7 V	Rated (nominal) output current @ U_{Nom}	20 A @ 60 °C
Rated output voltage	24 V DC $\pm$ 1 %	Switching thresholds	21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
Voltage monitoring	Yes, In both inputs	Wire connection method	Screw connection

General data

Clip-in foot	metal	Degree of efficiency	> 97% @ 24 V input voltage
Humidity	5...95 %, no condensation	MTBF	> 500,000 h acc. to IEC 1709 (SN29500)
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.	Operating temperature	-25 °C...70 °C
Protection degree	IP20		

EMC / shock / vibration

Noise emission acc. to EN55022	Class B	Vibration resistance IEC 60068-2-6	1 g according to EN50178
Interference immunity test acc. to	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted)	Shock resistance IEC 60068-2-27	15 g In all directions

Insulation coordination

Class of protection	III, with no ground connection, for SELV	Insulation voltage	0.5 kV Input/output housing
Pollution severity	2		

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Technical data
Electrical safety (applied standards)

Electrical machine equipment

Acc. to EN60204

For use with electronic equipment

Acc. to EN50178 /
VDE0160

Safety extra-low voltage

SELV acc. to EN60950,
PELV acc. to EN60204
Connection data (input)
Conductor cross-section, AWG/kcmil ,
max.

12

Conductor cross-section, AWG/kcmil ,
min.

26

Conductor cross-section, flexible , min.

0.5 mm²

Conductor cross-section, rigid , max.

6 mm²

Conductor cross-section, rigid , min.

0.5 mm²

Number of terminals

4 (1+, 2+, 1-, 2-)

Wire connection cross section, flexible
(input), max.2.5 mm²
Connection data (output)
Conductor cross-section, AWG/kcmil ,
max.

12

Conductor cross-section, AWG/kcmil ,
min.

26

Conductor cross-section, flexible , max.

2.5 mm²

Conductor cross-section, flexible , min.

0.5 mm²

Conductor cross-section, rigid , max.

6 mm²

Conductor cross-section, rigid , min.

0.5 mm²

Number of terminals

4 (3 +, 4 +, 3 -, 4 -)

Signalling

Floating contact

Yes

Approvals

Institute (GERMLLOYD)



Certificate No. (GERMLLOYD)

94767-10

Institute (cULus)



Certificate no. (cULus)

E258476

Classifications

ETIM 6.0

EC002540

eClass 6.2

27-14-91-90

eClass 7.1

27-14-91-90

eClass 8.1

27-14-91-90

eClass 9.0

27-14-91-90

eClass 9.1

27-04-07-01

Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

Approval/Certificate/Document of Conformity	DE_PA5200_160512_001.pdf
Brochure/Catalogue	CAT 4.3 ELECTR 15/16 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Operating instructions