

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

Klingenbergstraße 16

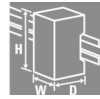
D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



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

Available until	2019-06-30
Type	CP M DM20
Order No.	122210000
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4050118005608
Qty.	1 pc(s).
Alternative product	248610000

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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	610 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		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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 _{Nominal}	24 A @ 45 °C, 22.5 A @ 55 °C, 15 A @ 70 °C	Nominal output current for U _{nom}	20 A @ 60 °C
Output current, max.	24 A	Output voltage	Voltage input - 0.7 V
Rated output voltage		Switching thresholds	21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
	24 V DC ± 1 %	Wire connection method	Screw connection
Voltage monitoring	Yes, In both inputs		

General data

Degree of efficiency	> 97% @ 24 V Input voltage	Humidity	5...95 %, no condensation
MTBF	> 500,000 h in accordance with IEC 61709 (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 in accordance with EN55032	Class B	Vibration resistance IEC 60068-2-6	1 g according to EN 50178
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

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Insulation coordination

Insulation voltage	0.5 kV <small>Input / output - Box</small>	Pollution severity	2
Protection degree	III, with no ground connection, for SELV		

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV according to EN 60950, PELV according to EN 60204		

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.5 mm ²	Conductor cross-section, rigid , max.	6 mm ²
Conductor cross-section, rigid , min.	0.5 mm ²	Number of terminals	4 (1+, 2+, 1-, 2-)
Wire connection cross section, flexible (input), max.	2.5 mm ²		



Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	6 mm ²	Conductor cross-section, rigid , min.	0.5 mm ²
Number of terminals	4 (3 +, 4 +, 3 -, 4 -)		

Signalling

Floating contact	Yes
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Approvals

Institute (GERMLLOYD)		Certificate No. (GERMLLOYD)	94767-10
Institute (cULus)		Certificate no. (cULus)	E258476

Classifications

ETIM 5.0	EC002850	ETIM 6.0	EC002540
eClass 6.2	27-04-92-01	eClass 7.1	27-04-92-01
eClass 8.1	27-04-92-01	eClass 9.0	27-04-07-01
eClass 9.1	27-04-07-01		

Data sheet**PRO-M
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Technical data**Approvals**

Approvals



ROHS

Conform

Downloads

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