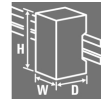


CP M DM20**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

In many automation applications, power supply systems are required that function reliably even if a power supply unit fails. With our optimally coordinated supplementary modules, a permanent supply concept is created. Weidmüller's diodes and redundancy modules connect two power supplies to each other in order to compensate for the failure of one device. The diode modules allow with 20 A or 40 A output current to the construction of safe power supply systems

General ordering data

Version	Diode module
Order No.	1222210000
Type	CP M DM20
GTIN (EAN)	4050118005608
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2022-10-31
Alternative product	2486090000

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Technical data

Dimensions and weights

Depth	150 mm	Depth (inches)	5.905 inch
Height	130 mm	Height (inches)	5.118 inch
Width	34 mm	Width (inches)	1.339 inch
Net weight	584 g		

Temperatures

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

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, note	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 $\pm$ 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
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.	Protection degree	IP20

EMC / shock / vibration

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)	Noise emission in accordance with	EN55032
Shock resistance IEC 60068-2-27	15 g In all directions	Vibration resistance IEC 60068-2-6	Class B 1 g according to EN 50178

Insulation coordination

Insulation voltage	0.5 kV Input / output - Box	Pollution severity	2
Protection class	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
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Creation date May 30, 2025 3:15:00 AM CEST

Catalogue status 24.05.2025 / We reserve the right to make technical changes.

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Technical data

Connection data (input)

Conductor cross-section, AWG/kcmil ,
max. 12Conductor cross-section, flexible , min. 0.5 mm²Conductor cross-section, rigid , min. 0.5 mm²Wire connection cross section, flexible
(input), max. 2.5 mm²Conductor cross-section, AWG/kcmil ,
min. 26Conductor cross-section, rigid , max. 6 mm²

Number of terminals 4 (1+, 2+, 1-, 2-)

Connection data (output)

Conductor cross-section, AWG/kcmil ,
max. 12Conductor cross-section, flexible , max. 2.5 mm²Conductor cross-section, rigid , max. 6 mm²

Number of terminals 4 (3 +, 4 +, 3 -, 4 -)

Conductor cross-section, AWG/kcmil ,
min. 26Conductor cross-section, flexible , min. 0.5 mm²Conductor cross-section, rigid , min. 0.5 mm²

Signalling

Floating contact Yes

Classifications

ETIM 6.0 EC002540

ETIM 8.0 EC002540

ETIM 10.0 EC002540

ECLASS 9.1 27-04-07-01

ECLASS 11.0 27-04-07-90

ECLASS 13.0 27-04-07-90

ECLASS 15.0 27-04-07-90

ETIM 7.0 EC002540

ETIM 9.0 EC002540

ECLASS 9.0 27-04-07-01

ECLASS 10.0 27-04-07-01

ECLASS 12.0 27-04-07-90

ECLASS 14.0 27-04-07-90

Environmental Product Compliance

RoHS Compliance Status Compliant

REACH SVHC Lead 7439-92-1

SCIP c9dca554-f123-4c2f-a680-5a7631aa9527

Approvals

Approvals



Approvals MAMID https://mdcop.weidmueller.com/mediadelivery/rendition/900_319221/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/

ROHS Conform

UL File Number Search UL Website

Certificate no. (cULus) E258476

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Technical data

Downloads

Approval/Certificate/Document of Conformity	CP M DM UL 508.pdf DE_PA5200_160512_001.pdf
Engineering Data	CAD data – STEP
User Documentation	Operating instructions
Catalogues	Catalogues in PDF-format
Brochures	

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