Data sheet

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 items
Delivery status	This article will no longer be available in the future.
Available until	2022-10-31T00:00:00+01:00
Alternative product	PRO RM 10

Data sheet

CP M DM20

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. (cULus)	E258476

Dimensions and weights

Depth	150 mm	Depth (inches)	5.9055 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	34 mm	Width (inches)	1.3386 inch
Net weight	495 g		

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	c9dca554-f123-4c2f-a680-5a7631aa9527

Input

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

Output

Rated output voltage	24 V DC ± 1 %	Switching thresholds	21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
Output current, max.	24 A	Wire connection method	Screw connection
Output voltage, note	Voltage input - 0.7 V	Nominal output current for Unom	20 A @ 60 °C
Voltage monitoring	Yes, In both inputs	Continuous output current @ UNominal	24 A @ 45 °C, 22.5 A @ 55 °C, 15 A @ 70 °C

General data

Degree of efficiency	> 97% @ 24 V Input voltage	Humidity	5...95 %, no condensation
Protection degree	IP20	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.

CP M DM20

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

www.weidmueller.com

Technical data

EMC / shock / vibration

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

Insulation coordination

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

Electrical safety (applied standards)

For use with electronic equipment	Acc. to EN50178 / VDE0160	Electrical machine equipment	Acc. to EN60204

Connection data (input)

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

Connection data (output)

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

Signalling

Floating contact	Yes

Classifications

ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	EC002540	ECLASS 14.0	27-04-07-90
ECLASS 15.0	27-04-07-90		