

PRO DM 20**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, 24 V DC
Order No.	2486080000
Type	PRO DM 20
GTIN (EAN)	4050118496819
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	125 mm	Depth (inches)	4.921 inch
Height	125 mm	Height (inches)	4.921 inch
Width	32 mm	Width (inches)	1.26 inch
Net weight	552 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation		

Input

Connection system	Screw connection	DC input voltage range	0...60 V DC
Input current	2 × 24 A (-40 °C ~ +45 °C), 2 × 20 A (+45 °C ~ +60 °C), 2 × 15 A (+70 °C)	Input fuse (internal)	No
Nominal power consumption	480 VA	Rated input voltage	24 V DC

Output

Connection system	Screw connection	Continuous output current @ U _{Nominal}	1 × 48 A (-40 °C ~ +45 °C), 1 × 40 A (+45 °C ~ +60 °C), 1 × 30 A (+70 °C)
Output current, max.	40 A	Output power	932 W
Protection against inverse voltage	Yes	Rated output voltage	V _{INPUT-typ.} 0.7 V
Residual ripple, breaking spikes	Dependent on the power supplies used		

General data

Degree of efficiency	> 97% @ 24 V Input voltage	Derating	> 60°C / 75% load @ 70°C
Housing version	Metal, corrosion resistant	Humidity	5-95% relative humidity, T _u = 40°C, without 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
Short-circuit protection	No	Surge voltage category	III

EMC / shock / vibration

Interference immunity test acc. to	EN 55022, EN 55024, EN 61000-3-2,-3, 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	30 g in all directions
Vibration resistance IEC 60068-2-6	2.3 g (on DIN rail)		

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Insulation coordination

Insulation voltage input / earth	0.5 kV	Insulation voltage output / earth	0.5 kV
Pollution severity	2	Protection class	III, with no ground connection, for SELV
Surge voltage category	III		

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410		

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.22 mm ²	Conductor cross-section, rigid , max.	6 mm ²
Conductor cross-section, rigid , min.	0.18 mm ²	Connection system	Screw connection
Number of terminals	4 (1+, 2+, 1-, 2-)	Screwdriver blade	0.8 x 4.0, PZ 1
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Wire connection cross section, flexible (input), max.	4 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	8	Conductor cross-section, AWG/kcmil , min.	22
Conductor cross-section, flexible , max.	16 mm ²	Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	16 mm ²	Conductor cross-section, rigid , min.	0.5 mm ²
Connection system	Screw connection	Number of terminals	4 (++) / (-)
Screwdriver blade	1.0 x 5.5	Tightening torque, max.	1.5 Nm
Tightening torque, min.	1.2 Nm		

Approbations

Certificate no. (cULus)	E258476	Institute (cULus)	CULUS
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Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ECLASS 9.0	27-04-07-01	ECLASS 9.1	27-04-07-01
ECLASS 10.0	27-04-07-01	ECLASS 11.0	27-04-07-90
ECLASS 12.0	27-04-07-90	ECLASS 13.0	27-04-07-90

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	cc374e6c-371c-484b-a36d-6c65c5030ae7
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl

Data sheet

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Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

Downloads

Approval/Certificate/Document of Conformity	DoP EN54.4 Declaration of Conformity UK Conformity Assessed
Engineering Data	CAD data – STEP
User Documentation	Operating instructions
Catalogues	Catalogues in PDF-format