

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 items

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Technical data

Approvals

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ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E258476

Dimensions and weights

Depth	125 mm	Depth (inches)	4.9212 inch
Height	125 mm	Height (inches)	4.9212 inch
Width	32 mm	Width (inches)	1.2598 inch
Net weight	441 g		

Temperatures

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

Environmental Product Compliance

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

Input

Connection system	Screw connection	Rated input voltage	24 V DC
Input fuse (internal)	No	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)	Nominal power consumption	480 VA

Output

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

General data

Degree of efficiency	> 97% @ 24 V Input voltage	Humidity	5-95% relative humidity, Tu = 40°C, without condensation
Protection degree	IP20	Surge voltage category	III
Building Width	32 mm	Building height	225 mm
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of	Housing version	Metal, corrosion resistant

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clearance at top & bottom for air circ. Can mount side by side with no space in between.

Derating	> 60°C / 75% load @ 70°C	Short-circuit protection	No
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EMC / shock / vibration

Shock resistance IEC 60068-2-27	30 g in all directions	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)
Vibration resistance IEC 60068-2-6	2.3 g (on DIN rail)		

Insulation coordination

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

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204		
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Connection data (input)

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

Connection data (output)

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

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		