

**PRO DM**  
**PRO DM 10**

**Weidmüller Interface GmbH & Co. KG**  
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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**

Type	PRO DM 10
Order No.	<a href="#">2486070000</a>
Version	Diode module, 24 V DC
GTIN (EAN)	4050118496772
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Width	32 mm	Width (inches)	1.26 inch
Height	125 mm	Height (inches)	4.921 inch
Depth	125 mm	Depth (inches)	4.921 inch
Net weight	518 g		

**Temperatures**

Humidity	5-95% relative humidity, T <sub>u</sub> = 40°C, without condensation	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Input**

Connection system	Screw connection	DC input voltage range	0...60 V DC
Input current	2 × 12 A (-40 °C ~ +45 °C), 2 × 10 A (+45 °C ~ +60 °C), 2 × 7.5 A (+70 °C)	Input fuse (internal)	No
Rated input voltage	24 V DC		

**output**

Connection system	Screw connection	Continuous output current @ U <sub>Nominal</sub>	1 × 24 A (-40 °C ~ +45 °C), 1 × 20 A (+45 °C ~ +60 °C), 1 × 15 A (+70 °C)
Protection against inverse voltage	Yes	Rated output voltage	V <sub>INPUT-typ.</sub> 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 <sub>u</sub> = 40°C, without condensation
MTBF	> 150,000 h in accordance with MIL-HDBK-217 (40°C, Bellcore), > 750,000 h in accordance with IEC 61709 (40°C, 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	-40 °C...70 °C	Protection degree	IP20
Surge voltage category	III		

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**Technical data**
**EMC / shock / vibration**

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

**Insulation coordination**

Insulation voltage output / earth	0.5 kV	Insulation voltage output / earth	0.5 kV
Pollution severity	2	Protection degree	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	Safety extra-low voltage	SELV according to EN 60950, PELV according to EN 60204

**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 <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>	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 <sup>2</sup>		

**Connection data (output)**

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

**Classifications**

ETIM 6.0	EC002540	eClass 6.2	27-04-90-04
eClass 9.0	27-04-07-01	eClass 9.1	27-04-07-01

**Approvals**

ROHS	Conform
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**Data sheet****PRO DM**  
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Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instructions</a>

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