

**PRO DM 20****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Use our diode and redundancy modules to connect two power supplies and compensate for a device failing. In addition, our capacity module offers power reserves, guaranteeing purposeful and quick triggering of a circuit breaker, for example.

**General ordering data**

Version	Diode module, 24 V DC
Order No.	<a href="#">2486080000</a>
Type	PRO DM 20
GTIN (EAN)	4050118496819
Qty.	1 pc(s).

Creation date March 9, 2023 9:30:02 PM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

## PRO DM 20

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C
Humidity	5-95% relative humidity, T <sub>u</sub> = 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 <sub>Nominal</sub>	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 <sub>INPUT</sub> -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 <sub>u</sub> = 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.	Operating temperature	-40 °C...70 °C
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)		

Creation date March 9, 2023 9:30:02 PM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

2

## PRO DM 20

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## 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 <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
Wire connection cross section, flexible (input), max.	4 mm <sup>2</sup>		

## Connection data (output)

Conductor cross-section, AWG/kcmil , max.	8	Conductor cross-section, AWG/kcmil , min.	22
Conductor cross-section, flexible , max.	16 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid , max.	16 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>
Connection system	Screw connection	Number of terminals	4 (++ / -)

## Approbations

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

## Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	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

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	cc374e6c-371c-484b-a36d-6c65c5030ae7

## Approvals

Approvals



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

Creation date March 9, 2023 9:30:02 PM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

**PRO DM 20**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Technical data****Downloads**

---

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Operating instructions</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

---