

## PRO RM 40

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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. Redundancy modules increase system availability is decisive. Each redundant branch is able to supply full output load. The 24-V control voltage remains stable in the event of a power supply failure. The use of MOSFETs in our redundancy modules allows for a optimum efficiency.

### General ordering data

Version	Redundancy module, 24 V DC
Order No.	<a href="#">2486110000</a>
Type	PRO RM 40
GTIN (EAN)	4050118496840
Qty.	1 items

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## Technical data

### Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E258476

### Dimensions and weights

Depth	125 mm	Depth (inches)	4.9212 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	52 mm	Width (inches)	2.0472 inch
Net weight	750 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	Pluggable screw connection	Rated input voltage	24 V DC
DC input voltage range	10 ... 32 V DC	Input current	2 × 48 A (-40 °C ~ +45 °C), 2 × 40 A (+45 °C ~ +60 °C), 2 × 30 A (+70 °C)
Nominal power consumption	960 VA		

### Output

Output power	1907.2 W	Connection system	Screw connection
continuous output current @ 24 V DC	1 × 96 A (-40 °C ~ +45 °C), 1 × 80 A (+45 °C ~ +60 °C), 1 × 60 A (+70 °C)	Rated output voltage	VINPUT-typ. 0.16 V
Output voltage, max.	32 V	Output voltage, min.	9.84 V
Output current, max.	96 A	Continuous output current @ UNominal	1 × 96 A (-40 °C ~ +45 °C), 1 × 80 A (+45 °C ~ +60 °C), 1 × 60 A (+70 °C)

### General data

Degree of efficiency	> 98%	Humidity	5-95% relative humidity, Tu = 40°C, without condensation
Protection degree	IP20	Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & amp;

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Derating	> 60°C / 75% @ 70°C	Conformal coating	Yes
Short-circuit protection	No		

bottom for air circ. Can mount side by side with no space in between.

### EMC / shock / vibration

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

Protection class	III, with no ground connection, for SELV	Insulation voltage input / earth	0.5 kV
Insulation voltage output / earth	0.5 kV		

### Connection data (input)

Connection system	Pluggable screw connection	Number of terminals	4 (+,+,-,-)
Conductor cross-section, AWG/kcmil , max.	6 AWG	Conductor cross-section, AWG/kcmil , min.	22 AWG
Wire connection cross section, flexible (input), 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.	0.2 mm <sup>2</sup>
Tightening torque, max.	1.5 Nm		

### Connection data (output)

Connection system	Screw connection	Number of terminals	2 (+ / -)
Conductor cross-section, AWG/kcmil , max.	1 AWG	Conductor cross-section, AWG/kcmil , min.	20 AWG
Conductor cross-section, flexible , max.	35 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>
Tightening torque, max.	4 Nm		

### Connection data (signal)

Wire connection cross-section, flexible (signal), max.	1.5 mm <sup>2</sup>	Wire connection method	PUSH IN
Wire cross-section, AWG/kcmil , max.	16	Wire cross-section, solid , min.	0.2 mm <sup>2</sup>
Wire cross-section, solid , max.	1.5 mm <sup>2</sup>	Wire connection cross-section, flexible (signal), min.	0.2 mm <sup>2</sup>
Wire cross-section, AWG/kcmil , min.	24 mm <sup>2</sup>		

### Classifications

ETIM 8.0	EC002850	ETIM 9.0	EC002850
ETIM 10.0	EC002850	ECLASS 14.0	27-04-06-92
ECLASS 15.0	27-04-06-92		