

PRO RM 40**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. 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.	2486110000
Type	PRO RM 40
GTIN (EAN)	4050118496840
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	125 mm	Depth (inches)	4.921 inch
Height	130 mm	Height (inches)	5.118 inch
Width	52 mm	Width (inches)	2.047 inch
Net weight	750 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	Pluggable screw connection	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
Rated input voltage	24 V DC		

Output

Connection system	Screw connection	Continuous output current @ U _{Nominal}	1 × 96 A (-40 °C ~ +45 °C), 1 × 80 A (+45 °C ~ +60 °C), 1 × 60 A (+70 °C)
Output current, max.	96 A	Output power	1,907.2 W
Output voltage, max.	32 V	Output voltage, min.	9.84 V
Rated output voltage	V _{INPUT-typ.} 0.16 V	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)

General data

Degree of efficiency	> 98%	Derating	> 60°C / 75% @ 70°C
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

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

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

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Connection data (input)

Conductor cross-section, AWG/kcmil , max.	6	Conductor cross-section, AWG/kcmil , min.	22
Conductor cross-section, flexible , min.	0.5 mm ²	Conductor cross-section, rigid , max.	16 mm ²
Conductor cross-section, rigid , min.	0.2 mm ²	Connection system	Pluggable screw connection
Number of terminals	4 (+, +, -, -)	Tightening torque, max.	1.5 Nm
Wire connection cross section, flexible (input), max.	16 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	1	Conductor cross-section, AWG/kcmil , min.	20
Conductor cross-section, flexible , max.	35 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	2 (+ / -)
Tightening torque, max.	4 Nm		

Connection data (signal)

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

Approbations

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

ETIM 6.0	EC002850	ETIM 7.0	EC002850
ETIM 8.0	EC002850	ETIM 9.0	EC002850
ECLASS 9.0	27-04-06-92	ECLASS 9.1	27-04-92-90
ECLASS 10.0	27-04-06-92	ECLASS 11.0	27-04-06-92
ECLASS 12.0	27-04-06-92	ECLASS 13.0	27-04-06-92

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

Approvals

Approvals



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

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Technical data

Downloads

Approval/Certificate/Document of Conformity	PRO RM UL 508.pdf
	DNV Certificate.pdf
	PRO RM ATEX certificate .pdf
	IECEX Certificate
	Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Operating instructions
Catalogues	Catalogues in PDF-format