

PRO RM 10

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.	2486090000
Type	PRO RM 10
GTIN (EAN)	4050118496826
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	130 mm	Height (inches)	5.1181 inch
Width	30 mm	Width (inches)	1.1811 inch
Net weight	47 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	PUSH IN	Rated input voltage	24 V DC
DC input voltage range	10 ... 32 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 electric strength, max.	DC	Nominal power consumption	240 VA

Output

Output power	477.4 W	Connection system	PUSH IN
Rated output voltage	VINPUT-typ. 0.13 V	Output voltage, max.	32 V
Output voltage, min.	9.87 V	Output current, max.	24 A
Continuous output current @ UNominal	1 × 24 A (-40 °C ~ +45 °C), 1 × 20 A (+45 °C ~ +60 °C), 1 × 15 A (+70 °C)		

General data

Degree of efficiency	> 98%	Weight	497 g
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 & bottom for air circ. Can	Derating	> 60°C / 75% @ 70°C

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mount side by side with no space in between.

Conformal coating	Yes	Short-circuit protection	No
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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	PUSH IN	Number of terminals	4 (+,+, -, -)
Screwdriver blade	0.6 x 3.5	Conductor cross-section, AWG/kcmil , max.	12 AWG
Conductor cross-section, AWG/kcmil , min.	26 AWG	Wire connection cross section, flexible (input), max.	2.5 mm ²
Conductor cross-section, flexible , min.	0.2 mm ²	Conductor cross-section, rigid , max.	2.5 mm ²
Conductor cross-section, rigid , min.	0.2 mm ²		

Connection data (output)

Connection system	PUSH IN	Number of terminals	2 (+ / -)
Conductor cross-section, AWG/kcmil , max.	8 AWG	Conductor cross-section, AWG/kcmil , min.	24 AWG
Conductor cross-section, flexible , max.	6 mm ²	Conductor cross-section, flexible , min.	0.2 mm ²
Conductor cross-section, rigid , max.	10 mm ²	Conductor cross-section, rigid , min.	0.2 mm ²
Screwdriver blade	0.6 x 3.5		

Connection data (signal)

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

Classifications

ETIM 6.0	EC002850	ETIM 7.0	EC002850
ETIM 8.0	EC002850	ETIM 9.0	EC002850
ETIM 10.0	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	ECLASS 14.0	27-04-06-92
ECLASS 15.0	27-04-06-92		