

MRF102





Warning when the current exceed 80%

ADELBus I/O for driverer, monotoring and Configuration. ADELViewSystem for programming and Control the

Sequential Output Switch start. Reduce Inrush Current 2 Load Output, with adjustable current range 1..10A Power Boost 150%

Two output switchable in Parallel (max 15A)

Power limitation of the output to 100 VA, in according to

Monitoring for trigger switch off output for max Current or min Voltage on the channel

Alarm Output Open Collector DIN Rail and Wall Mount

General

Electronic Circuit Breacker Fuse, for protections about Overload and Short Circuit, Two channel electronic circuit with active current limitation for output load. It can operate in the field 12 and 24Vdc, for installation in DIN rail and Wall

Technical Data

Input Data

Supply voltage / at DC / Rated value	12 – 24 V
DC Input Voltage range (Vdc)	8 – 32 V
Overvoltage overload capability	35 V
Input current / at rated input	20 A max (30A peak max 10 sec)
voltage 12 - 24 V / Rated Value	20 A max (30A peak max 10 see)
Maximum current consumption	V 4 (40 VDC) V 4 (04 VDC)
	Xxx A (12 VDC) - Xxx A (24 VDC)
Required Back Up Fuse	Not required. Integrated failsafe
Input Voltage Reset Output	element (internal fuse)
Output Data	732 Vdc
Voltage curve / at output	
	Controlled DC voltage
Drop Out	0.2 V
Number of outputs	2
Output current / up to 60 °C / per	10 A
output / rated value	
Adjustable switch Off out current	110A
Type of response value setting	via Blink code Led
Parallel switching of outputs	Yes
Bridging of equipment's	No
Start Up	< 0.5 sec.
Surge voltage shutdown load circuit	>32 Vdc
Max Capacitive Load	50.000 uF
•	0.5 KV
Rated Surge Voltage Efficiency	
Efficiency	97%
Power loss [W] (typ)	17W (Nominal Operation)
Power dissipation	0.9 W (No Load operation)
Switching - off per output	
lout = 1.01.5 x set value	switch-off after approx. 5 s
lout = 1.51.8 x set value	
lout = 1.22 x set value	switch-off after approx. 1 s
lout > 2 x set value	switch-off after approx. 0,1 s
	switch-off after approx. 0,03 s
lout > set value and Vin < 15%	switch-off after approx. 0,03 s
(24V); (12V)	
Turn On Output after Switch Off	- Hiccup Mode
	- Manual Reset
	- By Press Button
	- 5 sec (Hover load / Short Circuit)
111 111 11 6	- 5 sec (Hover load / Short Circuit)
Waiting time after switch off Out	- 5 sec (Hover load / Short Circuit)
Protection and Monitoring	- 5 sec (Hover load / Short Circuit)
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Protection and Monitoring	16A per output (not replaceable)
Protection and Monitoring Internal Fuse protection type	16A per output (not replaceable) Max 32 Vdc (on Load Circuit)
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Connection for monitoring device:	AUX1: connection 2 pin AMP
Configuration Aux1	1: as ADELBus for Driving, Monitoring,
	Configuring
	2: Out Alarm for For SwitchOff Output
Diagnosis	 Common Signaling for disconnection
	Last Output
	 Single Channel: Current, set current
	threshold, Status On/Off
	- Reason for Output disconnection
Connection	

COMMICCUOM	
Input 12 or 24V	1 Screw Type: 0.2 - 2.5 mm2 (24 - 1
Input 0V	Screw Type 12 AWG); 0.6 - 0.8 1 Screw
Outputs	Type Nm
Signal Output:	AUX1: connection 2 pin AMP
Ambient Conditions	
Nominal Temperature operation	-25 up to+60°C (>60°derating 2.5%°C)
Ambient Temperature operation	-25 up to +70 °C
Ambient Temperature Storage	-40 up to +85 °C
Humidity at 25 °C, no condensation	95 % to 25 °C (acc. to IEC 60721)
Vibration (operation) IEC 60068-2-6	<15 Hz, amplitude ± 2.5mm

<15Hz-150Hz, 2.3G 90 min. No restrictions Altitude: 0 to 2 000m - 6560 to 20

General Data

Protection Class (EN/IEC 60529) IP20

Reliability: MTBF IEC 61709 > 700.000 h (Automatically Switch Off Beck Light after 30 sec) Protection class III

Housing material Polycarbonate

Foot latch material Plastic POM

Screw type connection 0.2 - 2.5 mm2 (24 - 12 AWG)

0.6 - 0.8 Nm

Dimension (w-h-d) mm 18 x 90 x 61

Weight 0.1 kg approx.

Immunity and Emission

The CE mark in conformity to EMC 2014/30/EU: Electromagnetic Compatibility Directive; 2014/35/EU: Low Voltage Directive; ROHS 2011/65/EU: Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS), as amended by 2015/863/EU

- EMC Immunity: EN61000-6-2
- EMC Emission: EN61000-6-3, EN 55022 ClassB

Electrical Safety for mounting

According to:

- Electrical Equipment for Machinery EN 60204
 - Electrical safety (of information technology equipment) IEC/EN

EN62368-1.

• Safety requirements for electrical equipment for measurement, control and Laboratory use IEC/EN 61010

Accessory
• RTConn: connector cable for the connection to AUX1. It is possible drive the device true this cable true the net ADELBus.



switched off due to overcurrent"