

Solid-state relay module - RIF-0-OPT-24DC/230AC/1 - 2905295


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Pre-assembled solid-state relay module with push-in connection, consisting of: relay base with ejector and plug-in miniature solid-state relay. Input voltage: 24 V DC. Output: 24 - 253 V AC/0.75 A



Key Commercial Data

Packing unit	10 STK
GTIN	 4 046356 945431
GTIN	4046356945431

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	93 mm
Depth	66 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

Input data

Input voltage range	19.2 V DC ... 28.8 V DC
"0" signal switching threshold in reference to U _C	< 0.4
"1" signal switching threshold in reference to U _C	> 0.8
Typical response time	10 ms
Typical turn-off time	10 ms

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Input data

Status display	Yellow LED
Type of protection	Free-wheeling diode
Transmission frequency	10 Hz
Power dissipation for nominal condition	0.19 W

Output data

Output voltage range	24 V AC ... 253 V AC (50/60 Hz)
Limiting continuous current	0.75 A (see derating curve)
Maximum inrush current	30 A (10 ms)
Min. load current	10 mA
Leakage current	1 mA (in off state)
Surge current	30 A AC (tp = 20 ms, at 25°C)
Max. load value	4.5 A ² s (tp = 10 ms, at 25 °C)
Surge voltage protection	> 275 V
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-wire, zero voltage switch
Type of protection	RCV circuit

Connection data input side

Connection name	Input side
Connection method	Push-in connection
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	26 ... 16

Connection data output side

Connection name	Output side
Connection method	Push-in connection
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	26 ... 16

General

Operating mode	100% operating factor
Degree of protection	IP20
Mounting position	any
Assembly instructions	In rows with zero spacing

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	260 V AC
Rated surge voltage	4 kV

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Standards and Regulations

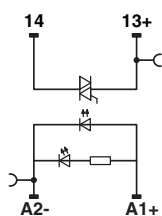
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

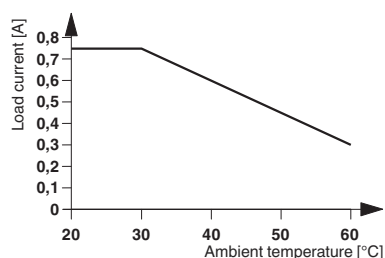
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



Diagram



Articles in set

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay socket - RIF-0-BPT/1 - 2901873



RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

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