



RHP Hybrid Solid-State Relays

Crouzet Products / Automation Controls / Solid State Relays / Hybrid Solid State Relays

PRODUCT FEATURES

The RHP series "Hybrid" SSR combines the benefits of electromechanical relays with those of a solid-state relay. The result is a compact relay capable of 5M+ operations at the rated load current!

- 20 amp output at 240Vac (resistive)
- Compact 17.5mm housing
- No additional heat sink required
- >5 million operations at full-load current
- Quiet operation
- 2000Vac optical isolation
- UL/cUL Listed, CE Compliant

RHP hybrid solid-state relay press release RoHS Information



RHP Series Hybrid Solid State Relays

Current	Output voltage	Input voltage	<u>Termination</u>	Switching	Part number	
20 A	90-260 V AC	3-32 V DC	Screw Terminal	Zero crossing	84138000	Check Stock
20 A	90-260 V AC	90-260 V AC	Screw Terminal	Zero crossing	<u>84138001</u>	Check Stock
20 A	90-260 V AC	90-260 V AC	Screw Terminal	Bistable	84138101	Check Stock
20 A	90-260 V AC	90-260 V AC	Screw Terminal	Day/Night Contactor	84138201	Check Stock

Hybrid Power Relay – RHP (Single Pole Relay)

- 20 Amp output (Resistive only)
- **■** Every SSR advantage without the drawbacks
- Lifetime > 5 million operations full load
- Noiseless
- Functions: contactor bistable
- 17.5 mm DIN rail mount
- UL/c(UL) (listed)
- Label NF-USE
- **■** CE compliant

Operation:

Contactor

Output of the contactor is closed when the input is On. Output of the contactor is opened when the input is Off. Led is On when the output is closed.

Bistable Relay

Output of the bistable changes of status for every pulse on the input and stays in its position between pulses.

Front plate push button allows to select the operation mode:

Stop - led off - output off

On forced - led flashing - output on

Auto - led on - bistable relay operation

Day/night contactor

Output of the contactor is closed when the input is On Output of the contactor is opened when the input is Off. Front plate push button allows to select the operation mode:

Stop - led off - output off

On forced – led flashing – output on – back to the Auto mode at the next change of the input.

Auto – led on – day/night contactor operation

Compliance

CEI/EN 60947-4-3 (industrial environment)

CEI/EN 60669-2-1 (household environment)

CEI/EN 60601-1 (medical environment)

CEI/EN 60947-7-1 (connections in industrial env.)

CEI/EN 60998-2-1 (connections in household env.

Insulation:

Installation category: 3

pollution: 3

CEI60664-1: 4KV/3 dielectric CEI/EN 60669-2-1:

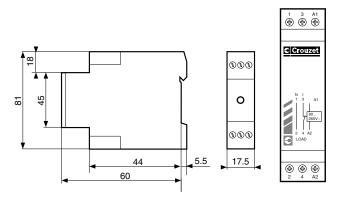
2 KV/1mm / 1mA / 50 Hz

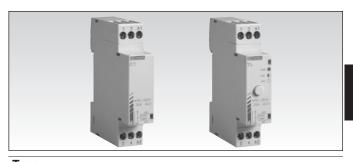
Insulation CEI/EN 60669-2-1:

> 5MΩ/500VDC / 1 min

Vibrations CEI/EN 60068-2-6: frequencies: 10 to 55 Hz

magnitude: 0,35 mm





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Part number	
AC input contactor	84 138 001
DC input contactor	84 138 000
AC input distable relay	84 138 101
AC input day/night contactor	84 138 201

S	pecifications	•
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Power supply	90-260 Vac
Frequency	50 / 60 Hz
Max. power consumption	11 VA

Input Control

Storage temperature

Humidity

Housing

weight

protection

(CEI 60529)

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Voltage	90-260 Vac	0-32 Vdc	
Frequency	50 / 60 Hz		
Value			
Input OFF	0 - 46 Vac	0 - 1 Vdc	
Input ON	76 - 260 Vac	4 – 32 Vdc	
Min. time input	50 ms	50 ms	

Output		
Voltage	90-260 Vac	
Max. current	20A in AC1 / AC51 / AC7a	
Overload current 20A	AC-51: 1,25 x le - 60s: 50 - 30	
	(CEI 60947-4-3)	
Min current	100mA in AC1 / AC51 / AC7a	
Frequency	50 / 60 Hz	
Contact	N.O.	
Switching frequency	6 / min	
lifetime	> 5,000,000	
leakage current	< 5 mA	
Acoustic noise		
ON position	< 35 dB @ 1m	
switching	< 50 dB @ 0.5m	
terminal capacity	2 x 1.5 mm2 with ferrule	
2 x 2.5 mm2 without ferrule		
1 x 4 mm2 without ferrule		
Torque	1Nm maxi. screw M3 (CEI 60947-1)	
Operating temperature:	−5°C to +55°C	

-40°C to +85°C

self extinguish

housing IP 50 terminal IP 20

70 gr

90 to 95% non-condensing