

DATASHEET

Thermal Overload Relay



Main Features

Reference	: RW27
Product code	: 10452205
Compatibility	: See note 1
Current range	: 15-23 A

Basic data

Rated voltage U_e	
- IEC	: 690 V
- UL	: 600 V
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- UL	: 600 V
Rated impulse withstand voltage U_{imp}	: 6 kV
Number of poles	: 3 poles
Trip class	: 10
Operation frequency	: 25...400Hz
Suitable for use with DC loads	: Yes
Maximum operating frequency	: 15 ops./h
Resistance to impact (IEC 60068-2-27)	: 10/11 g/ms

Installation

Degree of protection (IEC 60529)	
- Main terminals	: IP10
- Auxiliary terminals	: IP20

Main contacts

Rated voltage U_e	
- IEC	: 690 V
- UL	: 600 V
Max. Fuse (type 2 coordination)	: 50gL/gG
Average power dissipation per pole	: 3 W

Auxiliary contacts

Insulation voltage U_i	
- IEC	: 690 V
- UL	: 600 V
Rated operational voltage U_e (acc. to UL)	: 600 V
Rated thermal current I_{th} ($\theta = 55^\circ\text{C}$)	: 6 A
Rated current I_e AC-14/AC-15 (IEC 60947-5-1)	
- 24 V	: 4 A
- 60 V	: 3,5 A
- 125 V	: 3 A
- 230 V	: 2 A
- 400 V	: 1,5 A
- 500 V	: 0,5 A
- 690 V	: 0,3 A
Rated current I_e - DC-DC-13/14 (IEC 60947-5-1)	
- 24V	: 1 A
- 60V	: 0,5 A
- 110V	: 0,25 A
- 220V	: 0,1 A
Short circuit protection with fuses (gL/gG)	: 6gL/gG
Rated current I_e - UL, CSA	
- Rated operational current	: C600
- DC Rated operational current	: R300

Connection

Power circuit

Type of screw	: M4x10 Phillips
Terminal capacity:	
Flex (IEC)	: 6 mm ² ... 10 mm ²
Conductors with wire/terminal drive (IEC)	: 1,5 mm ² ... 6 mm ²
Wire/cable AWG (UL)	: 18 AWG ... 2 AWG
Tightening torque	
- IEC	: 2,3 N.m
- UL	: 20 lb.in

Auxiliary contacts

Screw type	: M3,5x10 Phillips
Terminal capacity:	
Flex cable (IEC)	: 1 mm ² 2,5 mm ²

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Wire/cable AWG (UL) : 16 AWG ... 12 AWG
Tightening torque : 1,5 N.m
- IEC : 13 lb.in
- UL

Ambient conditions

Temperature : -20 °C (-4 °F) ... +70 °C (158 °F)
- Operating : -50 °C (-58 °F) ... +80 °C (176 °F)
- Temperature for transport and storage : -20 °C (-4 °F) ... +60 °C (140 °F)
Temperature compensation (IEC 60947-4-1) : 2000 m (6562 ft)
Normal conditions

Current reduction factor:

Altitude (h)	Operational voltage	Current correction factor
h ≤ 2000 m	690 V	1 x In
2000 m < h ≤ 3000 m	550 V	0,96 x In
3000 m < h ≤ 4000 m	480 V	0,93 x In
4000 m < h ≤ 5000 m	420 V	0,9 x In

Dimensions

Height : 72 mm / 2.83 in
Width : 45 mm / 1.77 in
Depth : 82 mm / 3.23 in
Gross weight : 0,165 kg / 0.36 lb

Standards

- IEC 60947-4-1
- CSA C.22.2/14
- UL 60947-4-1 (UL 508)

Certifications

- Certification: BUREAU VERITAS
- Certification: CE
- Certification: IRAM
- Certification: UL

Notes

- 1) Mounting: Direct on the contactor or by screw and rail DIN 35 mm (EN 50022) using accessory;
2) Image merely illustrative.