DATASHEET
Thermal Overload Relay



Main Features

Reference	: RW317
Product code	: 10045647
Compatibility	: See note 1
Current range	: 100-150 A

Basic data

Rated voltage Ue	
- IEC	: 690 V
- UL	: 600 V
- IEC	: 1000 V
- UL	: 600 V
Rated impulse withstand voltage Uimp	: 8 kV
Number of poles	: 3 poles
Trip class	: 10
Operation frequency	: 50/60Hz
Suitable for use with DC loads	: No
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	: IP00
- Auxiliary terminals	: IP20

Main contacts

Rated voltage Ue	
- IEC	: 690 V
- UL	: 600 V
Max. Fuse (type 2 coordination)	: 315gL/gG
Average power dissipation per pole	: 15 W

Auxiliary contacts

Insulation voltage Ui	
- IEC	: 690 V
- UL	: 600 V
Rated operational voltage Ue (acc. to UL)	: 600 V
Rated thermal current Ith (θ = 55ºC)	: 6 A
Rated current Ie 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 Ie - 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 Ie - UL, CSA	
- Rated operational current	: C600
- DC Rated operational current	: R300

Connection

Power circuit

Type of screw	: M8x25
Terminal capacity:	
Flex (IEC)	: Not applicable ... Not applicable
Conductors with wire/terminal drive (IEC)	: Not applicable ... Not applicable
Wire/cable AWG (UL)	: Not applicable ... 1 AWG
Tightening torque	
- IEC	: 16 N.m
- UL	: 141 lb.in

Auxiliary contacts

Screw type	: M3,5x10 Phillips
Terminal capacity:	
Flex cable (IEC)	: 1 mm² .... 2,5 mm²

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

Ambient conditions

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

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	: 155 mm / 6.10 in
Width	: 115 mm / 4.53 in
Depth	: 166 mm / 6.54 in
Gross weight	: 1,985 kg / 4.38 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 using accessories or by screw.
2) Image merelly illustrative.