

# DATASHEET

## Thermal Overload Relay



### Main Features

|               |              |
|---------------|--------------|
| Reference     | : RW27       |
| Product code  | : 10452204   |
| Compatibility | : See note 1 |
| Current range | : 11-17 A    |

### Basic data

|                                       |              |
|---------------------------------------|--------------|
| Rated voltage Ue                      |              |
| - IEC                                 | : 690 V      |
| - UL                                  | : 600 V      |
| - IEC                                 | : 690 V      |
| - UL                                  | : 600 V      |
| Rated impulse withstand voltage Uimp  | : 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 Ue                   |           |
| - IEC                              | : 690 V   |
| - UL                               | : 600 V   |
| Max. Fuse (type 2 coordination)    | : 40gL/gG |
| Average power dissipation per pole | : 3 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 ( $\theta = 55^{\circ}\text{C}$ ) | : 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                             | : M4x10 Phillips                            |
| Terminal capacity:                        |                                             |
| Flex (IEC)                                | : 6 mm <sup>2</sup> ... 10 mm <sup>2</sup>  |
| Conductors with wire/terminal drive (IEC) | : 1,5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| 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 <sup>2</sup> .... 2,5 mm <sup>2</sup> |

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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.