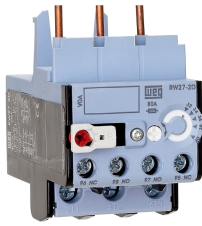


# DATASHEET

## Thermal Overload Relay



### Main Features

|               |              |
|---------------|--------------|
| Reference     | : RW27       |
| Product code  | : 12140377   |
| Compatibility | : See note 1 |
| Current range | : 1,8-2,8 A  |

### Basic data

|   |              |
|---|--------------|
| Rated voltage $U_e$                       |              |
| - IEC                                     | : 690 V      |
| - UL                                      | : 600 V      |
| - IEC                                     | : 690 V      |
| - UL                                      | : 600 V      |
| Rated impulse withstand voltage $U_{imp}$ | : 6 kV       |
| Number of poles                           | : 2 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)    | : 6gL/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                             | :     |
| Terminal capacity:                        |       |
| Flex (IEC)                                | : ... |
| Conductors with wire/terminal drive (IEC) | : ... |
| Wire/cable AWG (UL)                       | : ... |
| Tightening torque                         |       |
| - IEC                                     | :     |
| - UL                                      | :     |

#### 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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## Thermal Overload Relay



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

### 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 |
|----------------------------|---------------------|---------------------------|
| $h \leq 2000$ m            | 690 V               | 1 x I <sub>n</sub>        |
| $2000$ m < $h \leq 3000$ m | 550 V               | 0,96 x I <sub>n</sub>     |
| $3000$ m < $h \leq 4000$ m | 480 V               | 0,93 x I <sub>n</sub>     |
| $4000$ m < $h \leq 5000$ m | 420 V               | 0,9 x I <sub>n</sub>      |

### 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: 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.