



Product designation

INDUSTRIAL  
RELAYS ATEX  
HR8020

Product type designation

### Contact characteristics

|                                                    |        |    |                     |
|----------------------------------------------------|--------|----|---------------------|
| Contact configuration                              |        |    | 2 NO                |
| Rated insulation voltage $U_i$ IEC/EN              | V      |    | 250                 |
| Rated impulse withstand voltage $U_{imp}$          | kV     |    | 4                   |
| IEC Conventional free air thermal current $I_{th}$ | A      |    | 30                  |
| Rated current ( $I_n$ )                            | A      |    | 30                  |
| Relay control voltage                              | V      |    | 12VDC               |
| Single-phase motor control                         |        |    |                     |
|                                                    | 230VAC | kW | 2.2                 |
| Contact impedance                                  |        | mΩ | 50                  |
| Contact material                                   |        |    | Ag/SnO <sub>2</sub> |

### Operating times

|         |    |    |
|---------|----|----|
| Closing | ms | 25 |
| Opening | ms | 25 |

### Operations

|                     |        |         |
|---------------------|--------|---------|
| Mechanical life     | cycles | 5000000 |
| Electrical life AC1 | cycles | 100000  |

### Coil characteristics

|                                     |    |     |
|-------------------------------------|----|-----|
| Average coil consumption AC at 20°C | VA | 1,7 |
|-------------------------------------|----|-----|

Operating range

|                         |         |          |          |
|-------------------------|---------|----------|----------|
|                         | Closing | % $U_n$  | 80...110 |
|                         | Opening | % $U_n$  | 20...55  |
| Maximum cycle frequency |         | cycles/h | 360      |

### Mechanical features

Operating position

|        |        |            |
|--------|--------|------------|
|        | normal | Any        |
| Fixing |        | With screw |

### Ambient conditions

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +85 |

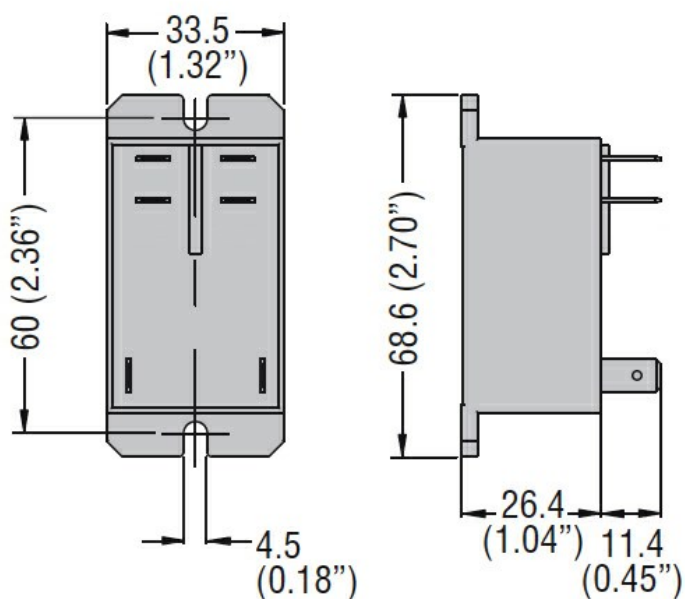
Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +85 |

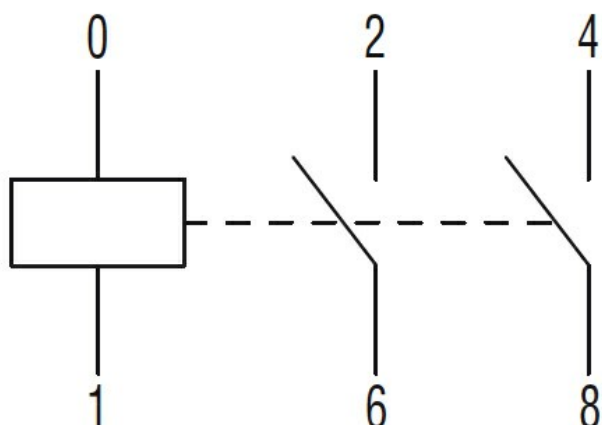
### Other features

|                                       |    |
|---------------------------------------|----|
| Indication                            | No |
| Mechanical contact position indicator | No |
| Mechanical test actuator              | No |

### Dimensions



#### Wiring diagrams



#### Certifications and compliance

##### Compliance

IEC/EN/BS 61810-1

##### Certificates

cURus

EAC

TUV (ATEX)

VDE

#### ETIM classification

ETIM 8.0

EC001437 –  
Switching relay