

58 Atex

58 SERIES ATEX RELAY INTERFACE MODULE - SAFETY INSTRUCTIONS

1 GENERAL SAFETY INFORMATION

These safety instructions refer to the installation, utilization and maintenance of 58 series relays to be used in potentially explosive areas due to the presence of combustible GAS. The information of these instructions are only for qualified personnel. The relays and the sockets comply with the Essential Health and Safety Requirements for potentially explosive atmospheres provided by European Standards: EN 60079-0 (2012+A11:2013), EN 60079-15(2010), EN 60079-7(2015)

| Interface Code | Socket Code | Relay Code | Modules | Retaining clip |
|------------------|-------------|------------------|----------------|----------------|
| 58.32.V.XXX.W0JK | 94.02.7 | 55.32.V.XXX.W0Y3 | 99.02.Z.XXX.QT | 094.71 |
| 58.32.V.XXX.W0JK | 94.04.7 | 55.32.V.XXX.W0Y3 | 99.02.Z.XXX.QT | 094.71 |
| 58.33.V.XXX.W0JK | 94.03.7 | 55.33.V.XXX.W0Y3 | 99.02.Z.XXX.QT | 094.71 |
| 58.34.V.XXX.W0JK | 94.04.7 | 55.34.V.XXX.W0Y3 | 99.02.Z.XXX.QT | 094.71 |
| 58.32.V.XXX.W00K | 94.02.7 | 55.32.V.XXX.W0Y3 | | 094.71 |
| 58.32.V.XXX.W00K | 94.04.7 | 55.32.V.XXX.W0Y3 | | 094.71 |
| 58.33.V.XXX.W00K | 94.03.7 | 55.33.V.XXX.W0Y3 | | 094.71 |
| 58.34.V.XXX.W00K | 94.04.7 | 55.34.V.XXX.W0Y3 | | 094.71 |

J = 4, 5, 6 - K = 8, 9 - V = 8, 9 - Q = 5, 9 - Y = 0, 2 - Z = 0, 9 - T = 8, 9
Marker tags 060.72; xxx**= supply voltage

2 TRANSPORT, STORAGE


On receipt verify that the relay has not been damaged during transport. If damaged, do not install and immediately advise the transport service.

3 INSTALLATION

Installation must comply with the rules of the standard EN60079-14 or with the current national standards. Before the installation in an explosive atmosphere, the installer must ensure that the relay is suitable for the classified area in consideration of the different inflammable substances present in the installation area (please verify the marking on the relay cover before installation). The relay must be installed only by qualified people with knowledge of electrical apparatus for explosive gas atmospheres and electrical installations in hazardous areas and has to be done with the relay and equipment at standstill, electrically dead and locked against restart.

4 MARKING

 II 3G Ex ec nC IIC Gc -40°C ≤ Ta ≤ +70°C

| |
|---|
|  Specific marking of explosion protection |
| II - Component for surface plant (different from mines) |
| 3 - Category 3: normal level of protection |
| GAS |
| G - explosive atmosphere due to presence of combustible gas vapour or mist |
| Ex ec - Increased safety |
| Ex nC - Sealed device (type of protection for category 3G) |
| IIC - Gas group |
| Gc - Equipment Protection Level |
| -40°C ≤ Ta ≤ +70°C - Ambient temperature |
| EPTI 17 ATEX 0195 U EPTI: laboratory which issued the certificate 17: year of issue of certificate 0195: number of the certificate |
| U: Ex component |

5 TECHNICAL CHARACTERISTICS

CONTACT CHARACTERISTICS

- Contact configurations: 2 CO (58.32) - 3 CO (58.33) - 4 CO (58.34)
- Rated Current / maximum peak current: 10 / 20 A (58.32) - 9 / 20 A (58.33) - 6 / 15 A (58.34)
- Rated voltage / max switching voltage: 250 / 400 V AC (58.32) - 250 / 400 V AC (58.33) - 250 / 250 V AC (58.34)
- Rated load-Category AC1: 2500 VA (58.32) - 2250 VA (58.33) - 1500 VA (58.34)
- Rated load-Category AC15 (230 V AC): 500 VA (58.32) - 500 VA (58.33) - 350 VA (58.34)
- Capacity for single phase motor (230 V AC): 0.37 kW (58.32) - 0.37 kW (58.33) - 0.125 kW (58.34)
- Breaking capacity-Category DC1(30/110/220 V): 10 / 0.25 / 0.12 A (58.32) 9 / 0.25 / 0.12 A (58.33) 6 / 0.25 / 0.12 A (58.34)

CHARACTERISTICS OF COIL

- Rated Voltage* (UN): 12...230 V AC 12...230 V DC
- Rated power AC/DC: 1.5/1 VA (50 Hz)/W
- Operating range: (0.8...1.1)UN AC (0.8...1.1)UN DC
- Ambient temperature: (-40...+70)°C

* Special rated voltages on request

The supply voltage depends on the characteristics of the timer

6 SPECIAL CONDITION FOR SAFE USE

Maximum temperature recorded on the surface of the component (obtained supplying the coil at the nominal voltage, Tamb 70°C) not exceed 111°C with the value of rated current as described at the point 5. The wire connected to the terminals of the socket, must be at least 2.5 mm². On multi-installation, the value of the nominal current is reduced depending on the model of the interface. A pack connection of 5 interface, power supply = rated voltage, Tamb = 70°C:

| INTERFACE | MAX PEAK CURRENT [A] (for pack) |
|------------|---------------------------------|
| 58.32...JK | 7 |
| 58.33...JK | 6 |
| 58.34...JK | 5 |

The component must be inserted in an enclosure that meets the general requirements for enclosures listed in paragraph 4.10 of EN 60079-7. Connections must be carried out according to the requirements in paragraph 4.2.2 of EN 60079-7.

7 MAINTENANCE AND REPAIR

The user must not open, modify or repair this relay in any way.

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