



39 ATEX

Rev.1 - 12/2017

RELAY SERIES 39 ATEX - RELAY INTERFACE MODULE -SAFETY INSTRUCTIONS

1 GENERAL SAFETY INFORMATION

These safety instructions refer to the installation, utilization and maintenance of 39 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), EN 60079-15 (2010).

EMR relay interface and screw terminal socket			
Interface code	Nominal voltage	Socket code	Relay code
39.11.7.006.x073	6 V DC	93.61.7.024.7	34.51.7.005.X000
39.11.7.012.x073	12 V DC	93.61.7.024.7	34.51.7.012.X000
39.11.7.024.x073	24 V DC	93.61.7.024.7	34.51.7.024.X000
39.11.0.006.x073	6 V AC/DC	93.61.0.024.7	34.51.7.005.X000
39.11.0.012.x073	12 V AC/DC	93.61.0.024.7	34.51.7.012.X000
39.11.0.024.x073	24 V AC/DC	93.61.0.024.7	34.51.7.024.X000
39.11.0.125.x073	(110...125) V AC/DC	93.61.0.125.7	34.51.7.060.X000
39.11.8.230.x073	(230...240) V AC	93.61.8.230.7	34.51.7.060.X000
39.11.0.240.x073	(24...240) V AC/DC	93.61.0.240.7	34.51.7.024.X000

NOTE: X = 0 contact AgSnO₂ / X = 1 contacts AgNi / X = 5 contacts AgSnO₂+Au

EMR relay interface and Push-in terminal socket			
Interface code	Nominal voltage	Socket code	Relay code
39.01.7.006.x073	6 V DC	93.60.7.024.7	34.51.7.005.X000
39.01.7.012.x073	12 V DC	93.60.7.024.7	34.51.7.012.X000
39.01.7.024.x073	24 V DC	93.60.7.024.7	34.51.7.024.X000
39.01.0.006.x073	6 V AC/DC	93.60.0.024.7	34.51.7.005.X000
39.01.0.012.x073	12 V AC/DC	93.60.0.024.7	34.51.7.012.X000
39.01.0.024.x073	24 V AC/DC	93.60.0.024.7	34.51.7.024.X000
39.01.0.125.x073	(110...125) V AC/DC	93.60.0.125.7	34.51.7.060.X000
39.01.8.230.x073	(230...240) V AC	93.60.8.230.7	34.51.7.060.X000
39.01.0.240.x073	(24...240) V AC/DC	93.60.0.240.7	34.51.7.024.X000

NOTE: X = 0 contact AgSnO₂ / X = 1 contacts AgNi / X = 5 contacts AgSnO₂+Au

Multi - connector MasterADAPTER 14-Pole: 093.68.14.1 MARKING (II 3G Ex nA IIC Gc)
Plastic Separator: 093.60
16 way jumper link: 093.16, 093.16.0, 093.16.1

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 MARCATURA

 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 0194 U EPTI: laboratory which issues the certificate 17: year of issue of certificate 0194: number of the certificate	
U:	Ex component

5 TECHNICAL CHARACTERISTICS CONTACTS CHARACTERISTICS

Contacts configurations: 1 CO
Rated current/maximum peak current: 6/10 A
Rated voltage/maximum switching voltage: 250/400 V AC
Rated load-Category AC1: 1500 VA
Rated load-Category AC15 (230 V AC): 300 VA
Capacity for single phase motor (230 V AC): 0.185 kW
Breaking capacity-Category DC1(30/110/220 V): 6/0.2/0.12 A

CHARACTERISTICS OF COIL

Rated Voltage (UN): 6/12/24/110...125/24...240 V AC/DC
24...240/220...240 V AC (50/60 Hz)
6/12/24 DC
Operating range AC/DC: (0.8...1.1)UN
Ambient temperature °C: -40...+70

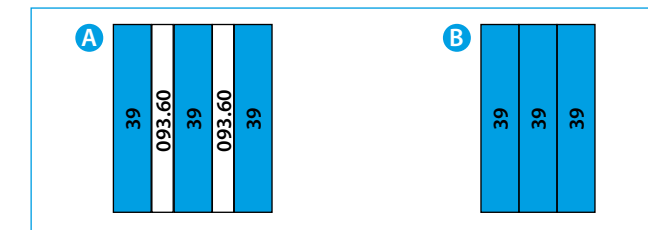
Rated Voltage U _N	Coil code	Rated Power P
V		VA/W
6	x.006	0.2/0.2
12	x.012	0.2/0.2
24	x.024	0.25/0.25
60	0.060	0.35/0.35
125 (110...125)	0.125	0.7/0.7
240 (24...240)	0.240	1.5/0.3
230 (230...240)	8.230	1/0.4

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 80°C with the value of rated current as described at the point 5 in single installation. On multi-installation, the value of the nominal current is reduced depending on the model of the interface and the ambient temperature. The maximum temperature recorded on the surface of the component does not exceed 110 °C if you respect the criteria on installation and the maximum currents in the following table.

The wire connected to the terminals of the socket, must be at least 2.5 mm². Installation of 8 interfaces with separators, a pack or with multiple connector (only 24 V DC) at the rated voltage, the maximum permissible current as a function of temperature is given in the table below:

Code Interface	Rated Voltage	8 pcs Pack installation with 093.60 @70°C	8 pcs Pack installation @40°C	8 pcs Pack installation @70°C
39.x1.7.006.x073	6 V DC	6 A	6 A	5 A
39.x1.7.012.x073	12 V DC			
39.x1.7.024.x073	24 V DC			
39.x1.0.006.x073	6 V AC/DC	6 A	6 A	5 A
39.x1.0.012.x073	12 V AC/DC			
39.x1.0.024.x073	24 V AC/DC			
39.x1.0.125.x073	(110...125) V AC/DC	5 A	6 A	4 A
39.x1.8.230.x073	(230...240) V AC	6 A	6 A	5 A
39.x1.0.240.x073	(24...240) V AC/DC	6 A	6 A	5 A



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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