





RELAY SERIES 66 ATEX
SAFETY INSTRUCTIONS



1 GENERAL SAFETY INFORMATION

 These safety instructions refer to the installation, utilization and maintenance of 66 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 comply with the Essential Health and Safety Requirements for potentially explosive atmospheres provided by European Standards: EN 60079-0 (2009), EN 60079-15 (2010).


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 EN 60079-14 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

 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 nC Sealed device (type of protection for category 3G)
	IIC Gas group
	Gc Equipment Protection Level
-40°C ≤ Ta ≤ +70°C Ambient temperature	
EUT 14 ATEX 0150 EUT: laboratory which issues the CE type certificate 14: year of issue of certificate 0150: number of CE type certificate	
U: Ex component	

5 ELECTRICAL CHARACTERISTICS

66.22/66.82.x.xxx.xxx3

CHARACTERISTICS OF CONTACTS

Rated current/maximum peak current A: 25/50 (NO) – 10/20 (NC)
Rated voltage/maximum switching voltage VAC: 250/400
Rated load - Category AC1 VA: 6250 (NO) – 2500 (NC)
Rated load - Category AC15 VA: 1200 (NO)
Capacity for single phase motor (230 VAC) kW: 1.5 (NO)
Breaking capacity - Category DC1: 30/110/220 V A: 25/0.7/0.3 (NO)

CHARACTERISTICS OF COIL

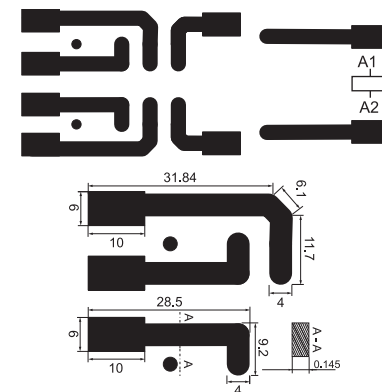
Rated Voltage U_N VAC (50/60 Hz):
6, 12, 24, 110/115, 120/125, 230, 240
Rated Voltage U_N VDC: 6, 12, 24, 110, 125
Rated Power AC/DC VA (50 Hz)/W: 3.6/1.7
Operating range AC/DC: (0.8...1.1) U_N

GENERAL CHARACTERISTICS

Ambient temperature °C: –40...+70

66.22



Use Dual layer pcb (dimensions mm). The tracks on both sides must meet the minimum Cu cross-section as stipulated in section 6.





66.82

Retention force (push/pull) EN 61210: 96/88 N.
Insertion/Disconnection force (after six disconnections) EN 61210: 80/18 N.
Wiring cross section as stipulated in section 6.

6 SPECIAL CONDITION FOR SAFE USE

  Maximum temperature recorded on the surface of the component (obtained under the following test conditions: V coil = 253 V; I Terminal = 25 A; Tamb = 70°C) did not exceed 120°C. The cross-section of conductors connected to the terminals, must be at least 4 mm² for the Type 66.82. The minimum cross-section of the tracks of the printed circuit board must be 0.58 mm², while the width must be at least 4.01 mm for Types “66.22” and “66.22....S”. The component must be placed inside an enclosure that meets the general requirements for enclosures as per clause 6.3 of EN 60079-15. The connections must be made in compliance with the requirements of clause 7.2.4 or 7.2.5 of EN 60079-15.

7 MAINTENANCE AND REPAIR

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