finder
RELAYING INNOVATION

41 Ex Rev.0 - 06/2024

IECEx

	41.xx.9.xxx.xx13 U_N 5, 6, 12, 24, 48, 60, 110 V DC U_{min} 0.8 U_N U_{max} 1.1 U_N P <= 0.52 W	
	41.61	**41.52**
	1 CO	2 CO
	70°C	**70°C**
	16 A - 277 V AC	8 A - 277 V AC
	5 A - 32 V DC	5 A - 32 V DC
	85°C	**85°C**
	10 A - 277 V AC	-
	5 A - 32 V DC	-
	(-40…+70)°C - 16 A	(-40…+70)°C - 8 A
	(-40…+85)°C - 10 A	

ENGLISH

1 MARKING

ATEX (UL 23 ATEX 3142 U):	II 3 G	Ex
IECEx (IECEx ULD 23.0038 U):	Ex nC IIC Gc	
HazLoc (E539562):	Cl I, Div2, Gr A, B, C, D, T4 Cl I, Zn 2, AEx nC IIC Ex nC IIC Gc U	c UL us LISTED IND. CONT. EQ. FOR HAZ.LOC.
Marking for explosion protection		
II Component for surface plant (different from mines)		
3 Category 3: normal level of protection		
G - Cl I Explosive atmosphere due to presence of combustible gas vapour or mist		
Div 2 - Zn 2 Hazardous explosive concentration presence just in case of fault		
Ex nC - AEx nC Sealed device		
IIC - Gr A, B, C, D Gas group		
T4 Temperature class		
Gc Equipment Protection Level		
UL 23 ATEX 3142 U - IECEx ULD 23.0038 U - E539562 UL - ULD: laboratory which issued the certificate 23: year if issue the certificate 3142 - 0038: number of the certificate E539562: UL file number U: Ex component		
Zyy: production batch identification Z: year, yy: week		

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2 GENERAL SAFETY INFORMATION

These safety instructions refer to the installation, utilization and maintenance of 41 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 applicable for IECEx, ATEX, HazLoc components, for potentially explosive atmospheres reported in the standards covered by the respective certificate

3 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.

4 INSTALLATION

Installation must comply with the rules of the standard IEC60079-14 and EN60079-14 or with the current national standards (current edition). 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.

5 MAINTENANCE AND REPAIR

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

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6 CONDITIONS OF ACCEPTABILITY - HAZLOC:

- Service temperature range of the sealant material: –20°C to +105°C.

For use in Class I, Division 2:

- The components is an open type and shall be installed in an enclosure suitable for the environment and such that the equipment is only accessible with the use of a tool
- The installation shall be compliant with §8 of UL 121201 and CSA C22.2 No. 213-17 with any applicable restrictions of the NEC for the US or CE Code, Part I for Canada

For use in Class I, Zone 2, EPL Gc:

- The subject devices have not been evaluated to the enclosure requirements for the required protection method.
  They shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with UL 60079-0 and/or CSA C22.2 No. 60079-0 as applicable
- The connection secureness of terminals shall be evaluated in end-use application
- All connection provided are factory wiring only
- The component shall be installed considering creepage and clearance distance of the terminals comply with the requirement sin protection method chosen for the equipment

7 SCHEDULE OF LIMITATION

- The service temperature of the resin is –20°C...+105°C
- The component must be inserted in an enclosure that meets the general requirements for enclosure listed in the EN 60079 -0 standard
- The component must be installed considering the air and crepeage distances of the terminals in accordance with the requirements and method of protection chosen for the device
- All connections are made on the device's production line
- The safety of terminal connections must be assessed on the final device

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