Murrelektronik GmbH
Falkenstraße 3
71570 Oppenweiler
GERMANY

Phone +49 7191 47-0
Fax +49 7191 47-491000
info@murrelektronik.com

Document	Version
Product data	1.0

Art.-No.	Product designation
52030	MIRO 6,2-1AUSG.REL.110V-1U

MIRO relay interface

MIRO output relay with leakage current suppression

- The function of the relay interface is to adapt different signal levels of a system and to isolate them galvanically.
- The control voltage is connected to the terminals A1 and A2.
- When the voltage is applied, the relay outputs will switch and the LED will light up.
- Resistive or inductive loads can be connected to the relay outputs (NO/NC).
- Detailed specifications can be found in the technical data.

Planning information, background information and accessories can be found at:
http://shop.murrelektronik.com

1 Electrical data

Input (control circuit)		
Nominal control voltage		110 V ~
Current consumption	At nominal control voltage	4,0 mA
Voltage range		95 ... 121 V ~
Dropout voltage		35 V ~
Residual current at dropout voltage		0,7 mA
Frequency for AC voltage		50 ... 60 Hz
Power consumption	At nominal control voltage	0,42 VA/W
Status indication		LED green

Output (main circuit)		
Contact function		Changeover contact
Switching voltage		12 ... 250 V ~
Switching current		100 mA ... 6 A
Frequency for AC voltage		50 ... 60 Hz
Switching capacity		≤1 500 VA / 120 W
Contact resistance		100 mΩ
Contact material		Ag Sn O_2

Utilization categories EN 60947-5-1		AC-12	AC-15	DC-13
	24 V	6 A	3 A	1.0 A
	110 V	6 A	3 A	0.2 A
	230 V	6 A	3 A	0.1 A

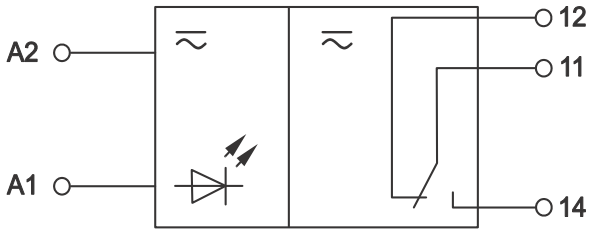
Switching times at nominal control voltage		
	Switch-on delay	Approx. 8 ms
	Switch-off delay	Approx. 20 ms
	Bounce time NO/NC	Approx. ms

Switching frequency at a duty cycle of 50 %		<360 switching cycles/h
Mechanical service life		≥10x10^6 Operating cycles
Electrical service life	230 V ~ / 6 A	≥6x10^4 Operating cycles

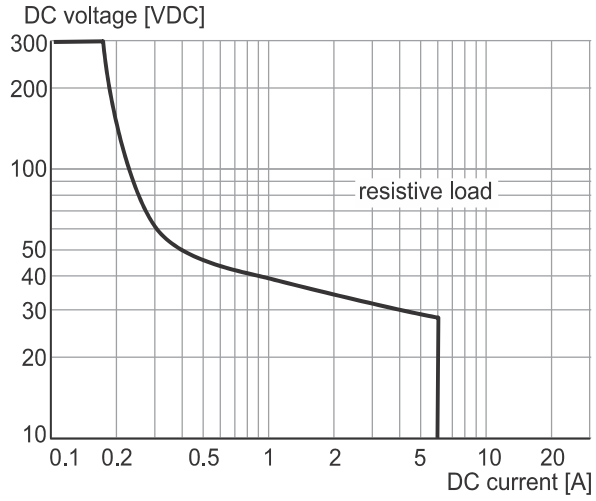
Rated insulation voltage	EN 60947-1	
Input		150 V ~
Output		250 V ~
Between control circuit and main circuit		300 V ~

Rated impulse withstand voltage	EN 60947-1	
Input		2.5 kV
Output		4 kV
Between control circuit and main circuit		6 kV

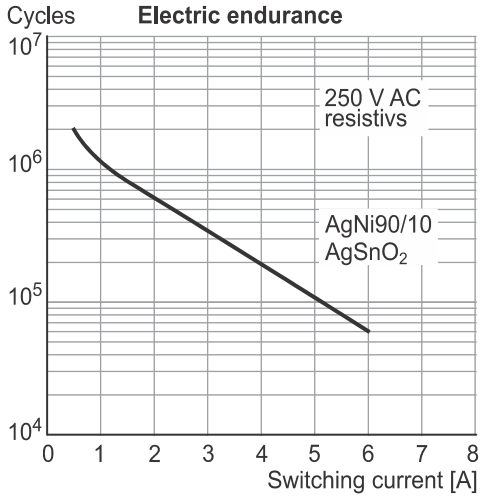
Circuit diagram



Max. DC switching load



Electrical service life



2 Environmental characteristics

Climatic		
Ambient temperature		-25 ... +60 °C
Storage temperature		-40 ... +80 °C
Relative humidity	No condensation	5 ... 95 % (40 °C)
Installation height	Above sea level	≤2000 m

Electrical safety		
Degree of pollution		2
Overvoltage category		III
Degree of protection		IP20

3 Protection

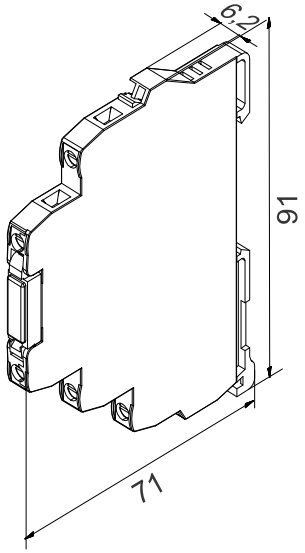
Device protection		
Protective circuit for input		Reverse-polarity protection
	RCZ filter = resistance, capacitor, Z diode	Integrated RCZ filter

Protective circuit for output		None
Recommended fuse for load circuit	Fuse insert	D01 Neozed 6 A, gG/gL
Permissible conditional short-circuit current		150 A

4 Mechanical data

Material data		
Housing material		Plastic
Flammability class	UL 94	V-0

Assembly data		
Connection type		M3 screw terminals
Connection cross-section	Single-wire Finely stranded	1x (0.25 ... 4) mm^2 1x (0.5 ... 2.5) mm^2
Fastening	DIN EN 60715	Mounting rail TH35
Weight	Net	35 g
Dimensions	W x H x D	6.2 x 91 x 71 mm



NOTE
The inductive loads must be wired using an appropriate suppressor component.

You will find a wide range of suppressor components in our webshop:
https://shop.murrelektronik.com

5 Product reliability

Product reliability		
MTTF	SN 29500 (at 40 °C and rated data)	489 years

6 Conformity, Approvals

Conformity, approvals		
Product standard	EN 60947-5-1 Low-voltage switching units	
CE	2014/35/EU 2014/30/EU 2011/65/EU	
UKCA		
China RoHS	GB/T 26572	25 EPUP
REACH	No. 1907/2006	
WEEE	2012/19/EU	
URus	UL 508	E140415
cUR	CSA 22.2 No. 14	E140415
cCSA	CSA 22.2 No. 14	080128 0 000
cCSAus	CSA 22.2 No. 14	080128 0 000

Hazardous substance (有害物質)						
Part Name 零件名稱	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr (VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴联苯醚
Component part PCB 组件部分　印刷电路板	X	O	O	O	O	O
Connection Terminal/ Screws 接线端子 / 拧	X	O	O	O	O	O

O: Indicates that the content of the harmful substance in all homogeneous materials of the component part is below the limit defined in GB/T 26572.
O: 表明該有害物質在組成部分的所有均質材料的含量低於按GB/ T26572定義的限制。
X: Indicates that the content of the harmful substance in at least one homogeneous material of the component part exceeds the limit defined in GB/T 26572.
X: 表示該有害物質在組成部分中的至少一個均質材料的含量超過按GB / T26572定義的限制。