

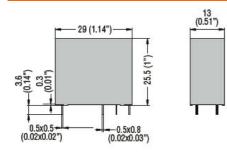


Product designation RELAYS Product type designation RELAYS Contact characteristics Contact characteristics Contact characteristics Reted inputs withstand voltage Uinp Reted voltage Reted operating power AC-1 Reted operating power AC-1 Reted operating power AC-1 Reted operating load V/ mA 5 / 100 Contact inputs Reted voltage Reted				MINIATURE
Contact characteristics 1 C/O Contact configuration 1 C/O Rated insulation voltage UITEC/EN V Rated insulation voltage UITEC/EN V Rated insulation voltage UITEC/EN A IEC Conventional free air thermal current Ith A Rated zero contrallable power in A Actal operating power AC-1 V VA 2500 Rated operating power AC-1 VA Zoottact material AC-1 W 2500 Rated operating power AC-1 VA Zoottact material AC-1 Contact material AGSnO2 Operating times	Product designation			
Contact configuration 1 C/O Rated insulation voltage Uirp kV 250 Rated inpulse withstand voltage Uimp kV 4 IEC Conventional free air thermal current lth A 10 Rated ourrent (In) A 10 Relay control voltage V 24VAC Max contrallable power in AC-1 W 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / MA 5/100 Contact impedance Contact impedance mΩ 50 Contact impedance MQ SonO2 Operating fines	Product type designation			HR401C
Rated insulation voltage Ui IEC/EN V 250 Rated impulse withstand voltage Uimp kV 4 IEC Conventional free air thermal current Ith A 10 Rated current (n) A 10 Rated current (n) A 10 Relad operating power AC-1 V 24VAC Max control lotage VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5 / 100 Contact impedance mΩ 50 Contact material AgSnO2 Operating imes Contact material AgSnO2 Operating imes Mechanical life cycles 1000000 Electrical life AC1 cycles 1000000 Cold characteristics V 10 Operating range Closing % Un 80110 Operating range Closing % Un 10 Nm	Contact characteristics			
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Rated current (In) A 10 Relay control voltage V 24VAC Max contrallable power in AC-1 W 2500 Rated operating power AC-1 VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5 / 100 Contact impedance mΩ 50 Contact impedance mS <20	Rated impulse withstand voltage Uimp		kV	4
Relay control voltage V 24VAC Max control voltage AC-1 W 2500 Rated operating power AC-1 VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5 / 100 Contact impedance mΩ 50 Contact impedance mΩ 50 Contact impedance AgSnO2 Operating times	IEC Conventional free air thermal current Ith		А	10
Max contraliable power in AC-1 W 2500 Rated operating power AC-1 VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V/mA 5 / 100 Contact impedance mQ 50 Contact impedance mQ 50 Contact impedance mS 20 Operating times	Rated current (In)		А	10
AC-1 W 2500 Rated operating power AC-1 VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5/100 50 Contact impedance mΩ 50 50 Contact material AgSnO2 AgSnO2 Operating times	Relay control voltage		V	24VAC
Rated operating power AC-1 VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5 / 100 Contact impedance mΩ 50 Operating times AgSnO2 Operating times	Max contrallable power in			
VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5 / 100 Contact impedance mΩ 50 Contact material AgSnO2 Operating times		AC-1	W	2500
VA 2500 Single-phase motor control 230VAC kW 0.25 Minimum switching load V / mA 5 / 100 Contact impedance mΩ 50 Contact material AgSnO2 Operating times	Rated operating power AC-1			
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Single-phase motor control			
Contact impedance mΩ 50 Contact material AgSnO2 Operating times ms <20		230VAC	kW	0.25
Contact impedance mΩ 50 Contact material AgSnO2 Operating times	Minimum switching load		V/mA	5 / 100
Contact material AgSnO2 Operating times ms <20			mΩ	50
Operating times ms <20				AgSnO2
Opening ms <10	Operating times			Ū.
Opening ms <10	Closing		ms	<20
Operations Mechanical life cycles 1000000 Electrical life AC1 cycles 100000 Coil characteristics Average coil consumption AC at 20°C VA 1 Operating range Closing % Un 80110 Opering % Un 80110 Opering % Un >10 Maximum cycle frequency cycles/h 1800 Nm 0.6 Mechanical features VA 1 VA 1 Max socket terminal tightening torque Nm 0.6 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm PH1 / 4.5mm Conductor section AWG/Kcmil min 20 IEC min mm² 0.5 max 14 12 14 IEC min mm² 0.5 Max mm² 2.5 0.5			ms	<10
Electrical life AC1 cycles 100000 Coil characteristics Average coil consumption AC at 20°C VA 1 Operating range Closing % Un 80110 Maximum cycle frequency cycles/h 1800 Mechanical features verage coil consol (cross / flat blade) VM 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm Conductor section AWG/Kcmil min 20 14 IEC min 20 max 14 Operating position Operating position VM 0.5 0.5				
Electrical life AC1 cycles 100000 Coil characteristics Average coil consumption AC at 20°C VA 1 Operating range Closing % Un 80110 Maximum cycle frequency cycles/h 1800 Mechanical features Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm PH1 / 4.5mm Conductor section AWG/Kcmil min 20 Max 14 IEC min 20 Operating position Operating position 2.5 0.5	Mechanical life		cycles	1000000
Coil characteristics Average coil consumption AC at 20°C VA 1 Operating range Closing % Un 80110 Opening % Un 80110 Opening % Un >10 Maximum cycle frequency cycles/h 1800 Mechanical features Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm Conductor section AWG/Kcmil min 20 max 14 IEC min 20 max 14 Operating position Operating position Socket screw tight Socket screw tight Socket screw tight	Electrical life AC1			100000
Operating range Closing % Un 80110 Opening % Un >10 Maximum cycle frequency cycles/h 1800 Mechanical features Max socket terminal tightening torque Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm Conductor section AWG/Kcmil IEC min mm² 0.5 max mm² 2.5 Operating position Vertical flat flat	Coil characteristics			
Closing Opening % Un 80110 Maximum cycle frequency cycles/h 1800 Mechanical features Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm PH1 / 4.5mm Conductor section AWG/Kcmil min 20 IEC min mm² 0.5 Operating position Operating position Socket screwition	Average coil consumption AC at 20°C		VA	1
Opening % Un >10 Maximum cycle frequency cycles/h 1800 Mechanical features Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm PH1 / 4.5mm Conductor section AWG/Kcmil IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Operating range			
Maximum cycle frequency cycles/h 1800 Mechanical features Max socket terminal tightening torque Nm 0.6 Max socket screw tightening tool (cross / flat blade) PH1 / 4.5mm PH1 / 4.5mm Conductor section AWG/Kcmil min 20 Max 14 14 14 IEC min mm² 0.5 Operating position V V V		Closing	% Un	80110
Mechanical features Nm 0.6 Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm Conductor section AWG/Kcmil min		-	% Un	>10
Max socket terminal tightening torque Nm 0.6 Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm Conductor section AWG/Kcmil Imin AWG/Kcmil min 20 IEC min mm² Min mm² 2.5 Operating position IEC Imin	Maximum cycle frequency		cycles/h	1800
Socket screw tightening tool (cross / flat blade) PH1 / 4.5mm Conductor section AWG/Kcmil min 20 max 14 IEC min mm² 0.5 max mm² 0.5 max mm² Operating position V V	Mechanical features		·	
Conductor section AWG/Kcmil min 20 max 14 IEC min mm² max mm² 2.5	Max socket terminal tightening torque		Nm	0.6
AWG/Kcmil min 20 max 14 IEC min mm² max mm² 2.5	Socket screw tightening tool (cross / flat blade)			PH1 / 4.5mm
min 20 max 14 IEC min mm² 0.5 max mm² 2.5	Conductor section			
min 20 max 14 IEC min mm² 0.5 max mm² 2.5	AWG/Kcmil			
IEC min mm ² 0.5 max mm ² 2.5 Operating position		min		20
min mm² 0.5 max mm² 2.5		max		14
max mm² 2.5 Operating position	IEC			
Operating position		min	mm²	0.5
		max	mm²	2.5
normal Any	Operating position			
		normal		Any

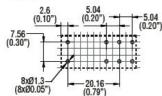
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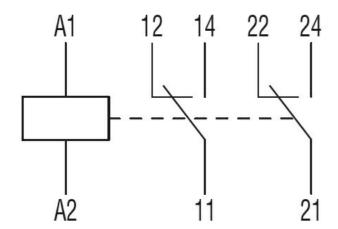
Fixing				On 35mm DIN rail and with screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	+85
	Storage temperature			
		min	°C	-40
		max	°C	+85
Other features				
Indication				No
Mechanical contact po	osition indicator			No
Mechanical test actuat	tor			No
Dimensions				



PCB layout



Wiring diagrams



Certifications and compliance

Complianc	e	
	IEC/EN 61810	
Certificate	5	
	cURus	
	VDE	
ETIM class	ification	
HR401CA024	The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding	2/3



HR401CA024 MINIATURE RELAY, 24VAC, 10A, 1C/O CONTACT. FITTING ON SOCKET HR5XS2...

ETIM 8.0

EC001437 – Switching relay