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Lovato electric
ENERGY AND AUTOMATION

HR502CA024

MINIATURE RELAY WITH LED STATE INDICATOR AND MECHANICAL ACTUATOR, 24VAC, 8A, 2C/O CONTACT. FITTING ON SOCKET HR5XS2...



Contact characteristics			
Contact configuration			2 C/O
Rated insulation voltage Ui IEC/EN		V	250
Rated impulse withstand voltage Uimp		kV	6
IEC Conventional free air thermal current Ith ≤ 40°C		A	8
Maximum instantaneous current		A	10
Rated current (In)		A	8
Max contrallable power in			
	AC-1	W	2000
	AC-15	VA	150
Rated operating power AC-1			
		VA	2000
Rated operating power AC-15			
	230 VAC	VA	150
Rated operating current DC-1			
	30V	A	8
	110V	A	0.3
	220V	A	0.1
Minimum switching load		V / mA	5 / 100
Contact impedance		mΩ	100
Contact material			Ag/Ni
Operating times			
Closing		ms	<15
Opening		ms	<15
Operations			
Mechanical life		cycles	10000000
Electrical life AC1		cycles	50000
Coil characteristics			
Relay control voltage		V	24VAC
Average coil consumption AC at 20°C		VA	1
Average coil consumption DC at 20°C		W	0.4
Operating range			
	Closing	% Un	70…110
	Opening	% Un	20…55
Maximum cycle frequency		cycles/h	3600
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	mm²	0.5
	max	mm²	2.5

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Operating position			
	normal		Any
Fixing			On 35mm DIN rail and with screw

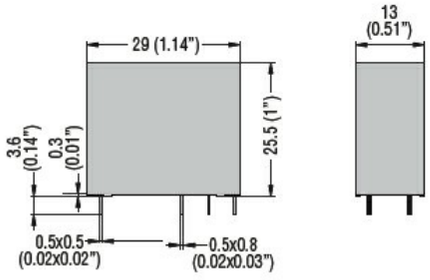
Ambient conditions

Temperature			
Operating temperature			
	min	°C	-40
	max	°C	+70
Storage temperature			
	min	°C	-40
	max	°C	+85

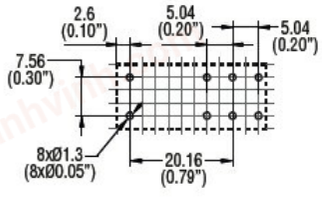
Other features

Indication	Yes
Mechanical contact position indicator	Yes
Mechanical test actuator	Yes

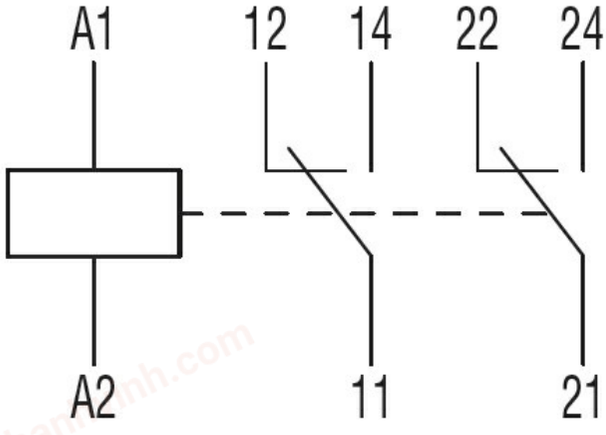
Dimensions



PCB layout



Wiring diagrams



Certifications and compliance

Compliance	
	IEC/EN 61810
Certificates	
	CSA

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cURus
EAC
VDE

ETIM classification

ETIM 8.0	EC001437 - Switching relay

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