



Product designation

MINIATURE
RELAYS
HR501C

Product type designation

Contact characteristics

Contact configuration			1 C/O
Rated insulation voltage U_i IEC/EN	V		250
Rated impulse withstand voltage U_{imp}	kV		6
IEC Conventional free air thermal current I_{th}	A		16
Maximum instantaneous current	A		20
Rated current (I_n)	A		16
Relay control voltage	V		12VDC
Max contrrollable power in			
	AC-1	W	4000
	AC-15	VA	150
Rated operating power AC-1		VA	4000
Rated operating power AC-15			
	230 VAC	VA	150
Single-phase motor control			
	230VAC	kW	0.1
Rated operating current DC-1			
	30V	A	12
	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	30000

Coil characteristics

Average coil consumption AC at 20°C	VA	1
Average coil consumption DC at 20°C	W	0.4
Operating range		

Closing	% U_n	75...110
Opening	% U_n	10...30

Maximum cycle frequency	cycles/h	3600
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Mechanical features

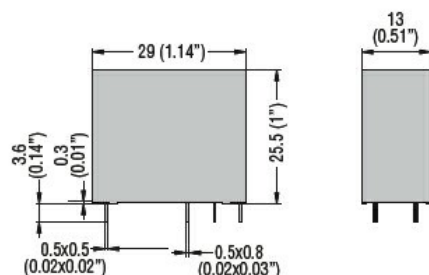
Max socket terminal tightening torque	Nm	0.6
Socket screw tightening tool (cross / flat blade)		PH1 / 4.5mm

Conductor section

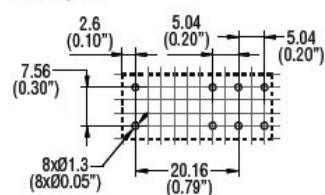
AWG/Kcmil

		min	20	
		max	14	
IEC				
		min	mm ²	0.5
		max	mm ²	2.5
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

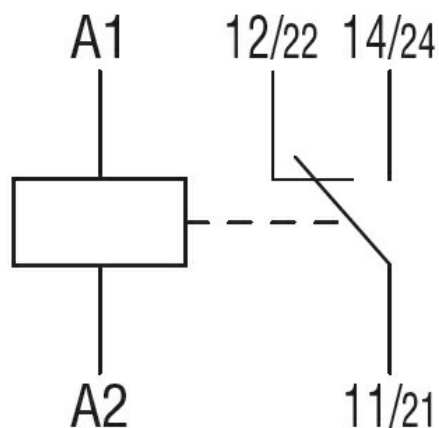
Dimensions



PCB layout



Wiring diagrams



Certifications and compliance

Compliance

IEC/EN 61810

Certificates

CSA

cURus

EAC

VDE

ETIM classification

ETIM 8.0

EC001437 -
Switching relay