



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		24VAC
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	% $U_n$	70...110
Opening	% $U_n$	20...55

Maximum cycle frequency	cycles/h	3600
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**Mechanical features**

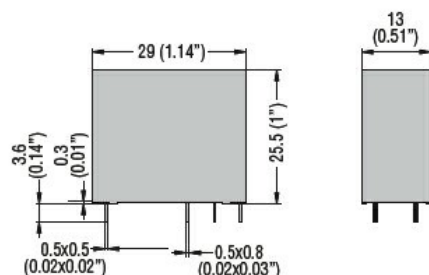
Max socket terminal tightening torque	Nm	0.6
Socket screw tightening tool (cross / flat blade)		PH1 / 4.5mm

Conductor section

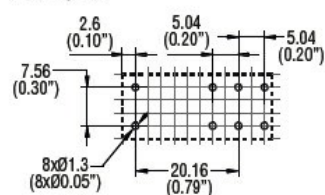
AWG/Kcmil

		min	20	
		max	14	
IEC				
		min	mm <sup>2</sup>	0.5
		max	mm <sup>2</sup>	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		

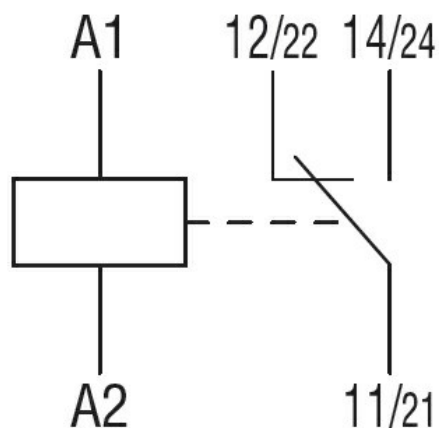
## Dimensions



### PCB layout



## Wiring diagrams



### Certifications and compliance

#### Compliance

IEC/EN 61810

#### Certificates

CSA

cURus

EAC

VDE

### ETIM classification

ETIM 8.0

EC001437 -  
Switching relay