



Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th} \leq 40^\circ C$	A	10
Short-time allowable current for 10s (IEC/EN60947-1)	A	0
Protection fuse	gG (IEC)	A 16
	Conductor section	
	AWG/Kcmil	
	max	12

Mechanical features

Operating position	normal	Vertical plan
	allowable	$\pm 30^\circ$
Fixing		Screw / DIN rail 35mm
Weight	g	180

Auxiliary contact characteristics

Thermal current I_{th}	A	10
IEC/EN 60947-5-1 designation		A600 - Q600
Operating current AC15	230V	A 3
	400V	A 1.9
	500V	A 1.4
Operating current DC12	110V	A 2.9
	Operating current DC13	
	24V	A 2.9
	48V	A 1.4
	60V	A 1.1
	125V	A 0.3
	220V	A 0.1
	600V	A 0.6

Operations

Mechanical life	cycles	20000000
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Safety related data

Performance level B10d according to EN/ISO 13489-1	mechanical load	cycles	20000000
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EMC compatibility		yes
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AC coil operating

Rated AC voltage at 60Hz	V	48
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AC operating voltage

of 60Hz coil powered at 60Hz				
pick-up	min	%Us	75	
	max	%Us	115	
drop-out	min	%Us	20	
	max	%Us	55	

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz				
	in-rush	VA	30	
	holding	VA	4	
of 50/60Hz coil powered at 60Hz				
	in-rush	VA	25	
	holding	VA	3	
of 60Hz coil powered at 60Hz				
	in-rush	VA	30	
	holding	VA	4	

Dissipation at holding ≤20°C 50Hz W 0.95

Max cycles frequency

Mechanical operation cycles/h 3600

Operating times

Average time for Us control

in AC				
Closing NO	min	ms	12	
	max	ms	21	
Opening NO	min	ms	9	
	max	ms	18	
Closing NC	min	ms	17	
	max	ms	26	
Opening NC	min	ms	7	
	max	ms	17	

in DC

Closing NO	min	ms	18	
	max	ms	25	
Opening NO	min	ms	2	
	max	ms	3	
Closing NC	min	ms	3	
	max	ms	5	
Opening NC	min	ms	11	
	max	ms	17	

UL technical data

Rated operational voltage AC (UL) V 600

Contact rating of auxiliary contacts according to UL A600 - Q600

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	+70

Storage temperature

min	°C	-60
max	°C	+80

Max altitude

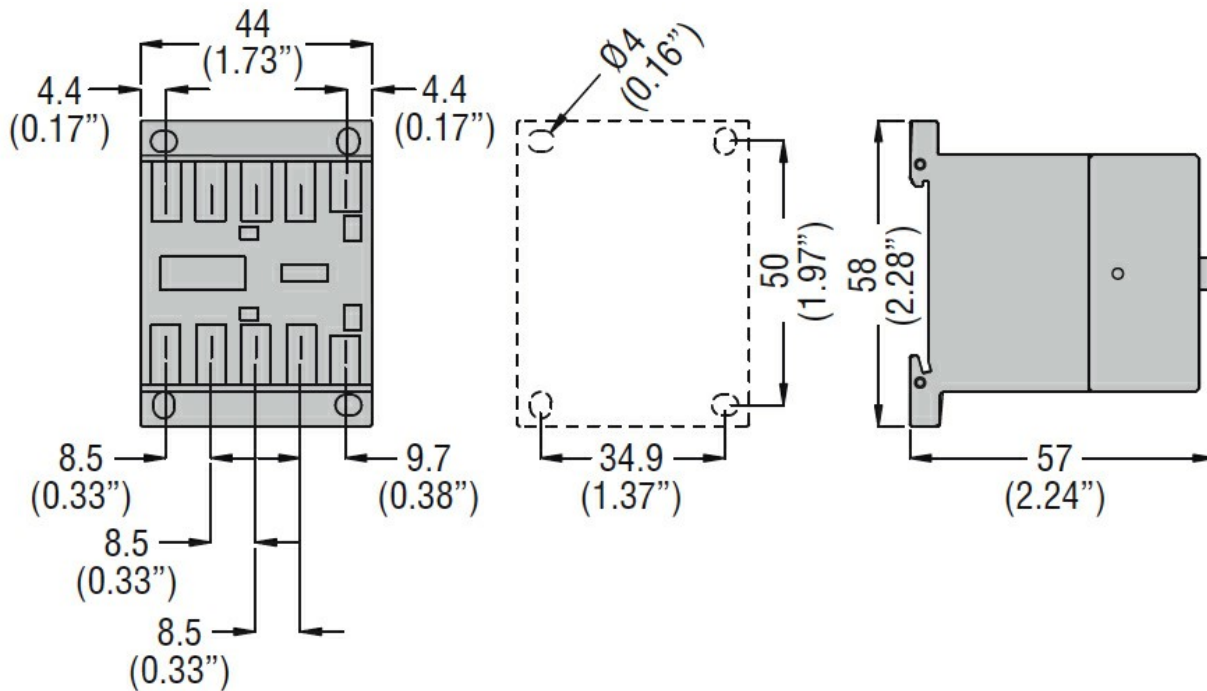
m 3000

Resistance & Protection

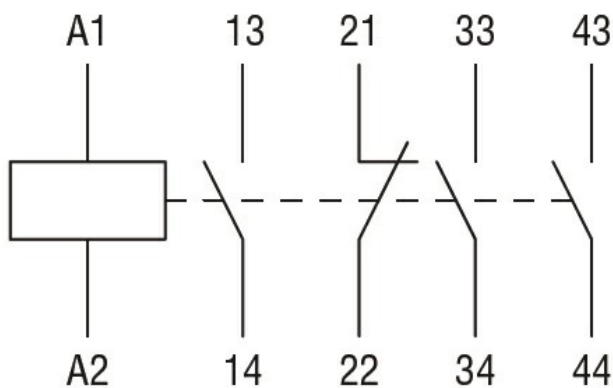
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

- CSA C22.2 n° 60947-1
- CSA C22.2 n° 60947-5-1
- IEC/EN 60947-1
- IEC/EN 60947-5-1
- UL 60947-1
- UL 60947-5-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000196 -
Contactor relay