



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 $I_{th} \leq 40^\circ\text{C}$	A		10
Protection fuse	gG (IEC)	A	16
	Tightening torque for terminals	min	Nm 0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Max number of wires simultaneously connectable	Nr.		2
Conductor section	AWG/Kcmil		
	max		12
Flexible w/o lug conductor section	min	mm ²	0.8
	max	mm ²	2.5
Flexible c/w lug conductor section	min	mm ²	1.5
	max	mm ²	2.5
Flexible with insulated spade lug conductor section	min	mm ²	1.5
	max	mm ²	2.5
Power terminal protection according to IEC/EN 60529			IP20
Mechanical features			
Operating position	normal		Vertical plan
	allowable		$\pm 30^\circ$
Fixing			Screw / DIN rail 35mm
Weight		g	200
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	1.2
	110V	A	0.6
	125V	A	0.55
	220V	A	0.3
	600V	A	0.1

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 50/60Hz		V	400
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AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	75
		max	%Us	115
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	80
		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	0.9
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Max cycles frequency

Mechanical operation		cycles/h	3600
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Operating times

Average time for Us control				
	in AC			
	Closing NO	min	ms	12

Opening NO	max	ms	21
	min	ms	9
Closing NC	max	ms	18
	min	ms	17
Opening NC	max	ms	26
	min	ms	7
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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
General USE		
Contactor		
AC current	A	10
Contact rating of auxiliary contacts according to UL		A600 - Q600

Ambient conditions

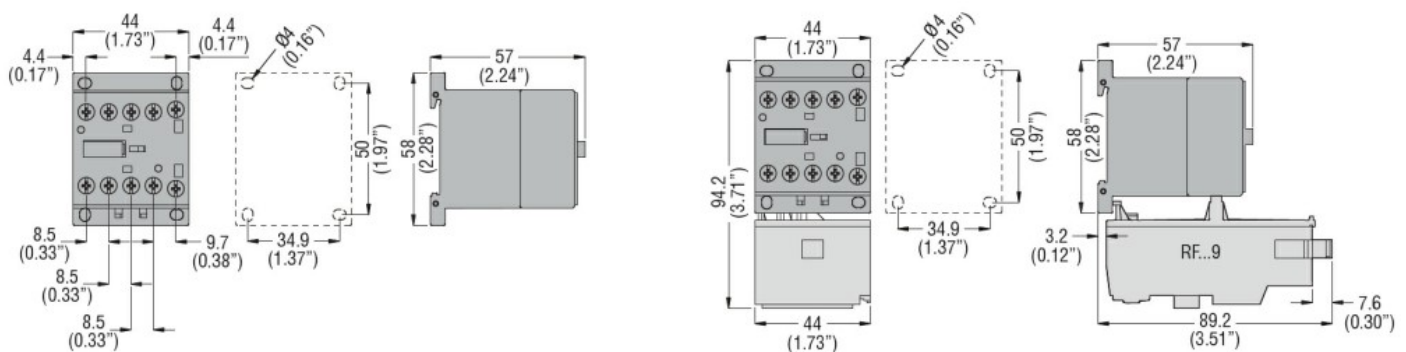
Temperature			
Operating temperature	min	°C	-50
	max	°C	+70
Storage temperature	min	°C	-60
	max	°C	+80

Max altitude	m	3000
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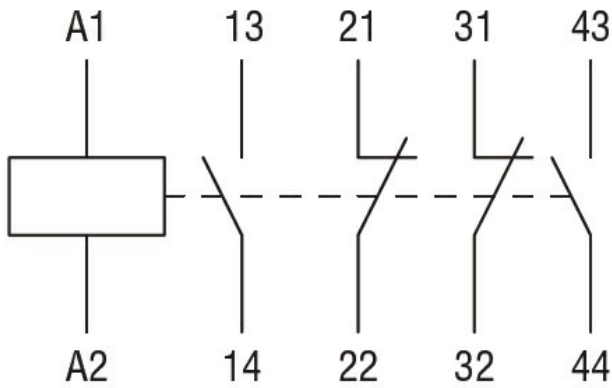
Resistance & Protection

Pollution degree	3
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Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-5-1

IEC/EN 60335-2-89

IEC/EN 60947-1

IEC/EN 60947-5-1

UL 60947-1

UL 60947-5-1

Certificates

CSA C22.2 n. 60335-2-40:22 LZGH A2L

CSA C22.2 No. 60335-2-89:21 LZGH A2L

cULus

EAC

UL 60335-2-40 LZGH A2L

UL 60335-2-89 LZGH A2L

ETIM classification

ETIM 8.0

EC000196 -
 Contactor relay