



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		
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 <sup>2</sup>	0.75	
	max	mm <sup>2</sup>	2.5	
Flexible c/w lug conductor section				
	min	mm <sup>2</sup>	1.5	
	max	mm <sup>2</sup>	2.5	
Flexible with insulated spade lug conductor section				
	min	mm <sup>2</sup>	1.5	
	max	mm <sup>2</sup>	2.5	
Power terminal protection according to IEC/EN 60529			IP20 when properly wired	
Mechanical features				
Operating position	normal allowable		Vertical plan $\pm 30^\circ$	
	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	1.2
	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 60Hz	V	120
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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
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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
		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
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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**

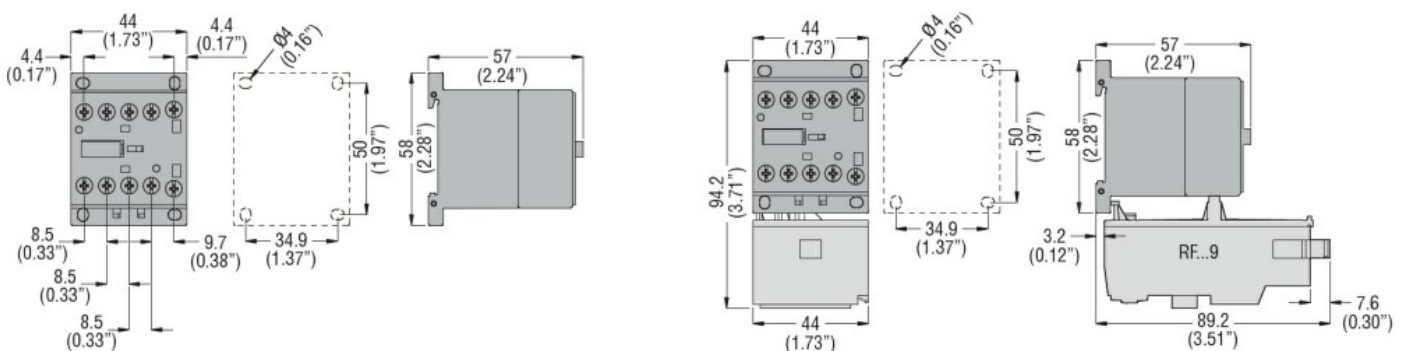
Temperature				
Operating temperature				
	min	°C	-50	
	max	°C	+70	
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Storage temperature				
	min	°C	-60	
	max	°C	+80	

Max altitude	m	3000
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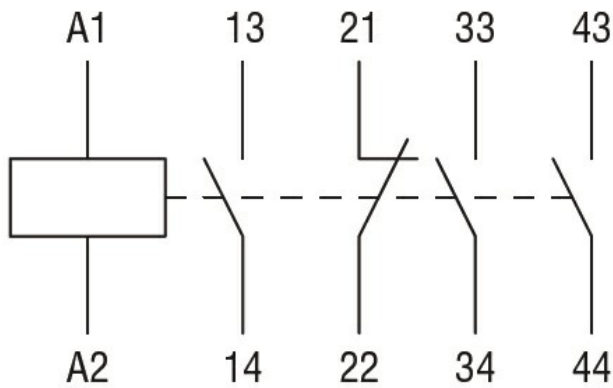
**Resistance & Protection**

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

CCC

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