



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 ²	0.75
	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 when properly wired

Mechanical features			
Operating position	normal		Vertical plan
	allowable		$\pm 30^\circ$
Fixing			Screw / DIN rail 35mm
Weight		g	179

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

Safety related data

Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000

EMC compatibility yes

AC coil operating

Rated AC voltage at 60Hz V 120

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
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

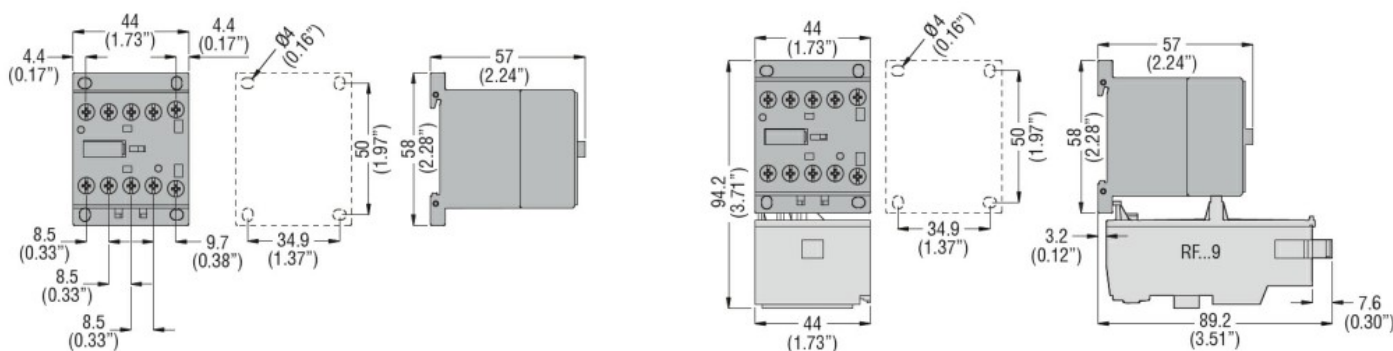
min	°C	-60
max	°C	+80

Max altitude	m	3000
--------------	---	------

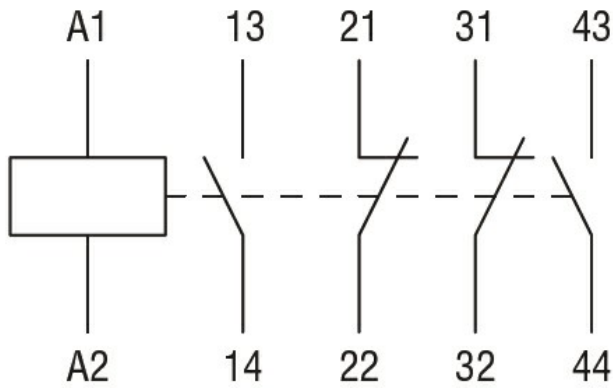
Resistance & Protection

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 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