



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 allowable		Vertical plan $\pm 30^\circ$	
	Fixing			Screw / DIN rail 35mm
Weight	g	178		
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 460

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

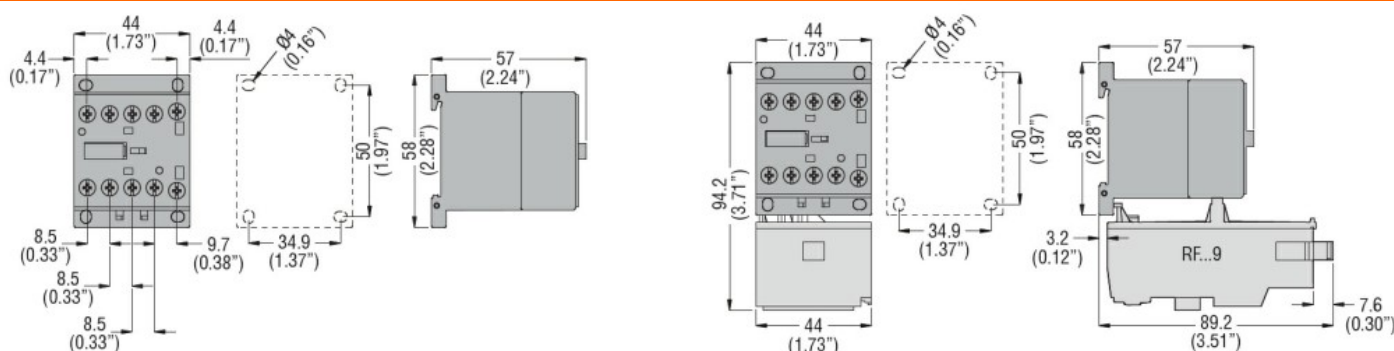
min	°C	-60
max	°C	+80

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

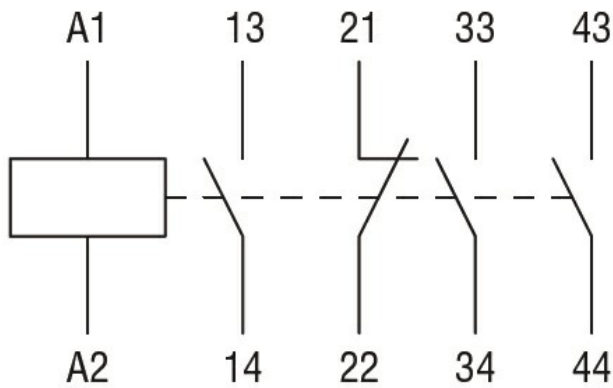
Resistance & Protection

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

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