



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	
Operational current $I_e$	AC-1 ( $\leq 55^\circ C$ )	A	0
	gG (IEC)	A	25
Tightening torque for terminals	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable	Nr.	2	
Conductor section	AWG/Kcmil	max	10
	Flexible w/o lug conductor section	min	mm <sup>2</sup> 1
max		mm <sup>2</sup> 6	
Flexible c/w lug conductor section	min	mm <sup>2</sup> 1	
	max	mm <sup>2</sup> 4	
Flexible with insulated spade lug conductor section	min	mm <sup>2</sup> 1	
	max	mm <sup>2</sup> 4	
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	368	
Auxiliary contact characteristics			

Thermal current I <sub>th</sub>		A	10
IEC/EN 60947-5-1 designation			A600 - P600
Operating current AC15	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	110V	A	5.7
Operating current DC13	24V	A	5.7
	48V	A	2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
	600V	A	0.2

**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 50/60Hz V 400

AC operating voltage

of 50/60Hz coil powered at 50Hz  
pick-up

min %Us 80  
max %Us 110

drop-out

min %Us 20  
max %Us 55

of 50/60Hz coil powered at 60Hz  
pick-up

min %Us 80  
max %Us 110

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 75  
holding VA 9

of 50/60Hz coil powered at 60Hz

in-rush VA 70  
holding VA 6.5

of 60Hz coil powered at 60Hz

in-rush VA 75  
holding VA 9

Dissipation at holding ≤20°C 50Hz W 2.5

**Max cycles frequency**

Mechanical operation cycles/h 3600

**Operating times**

Average time for Us control  
in AC

Closing NO	min	ms	8
	max	ms	24
Opening NO	min	ms	10
	max	ms	20
Closing NC	min	ms	14
	max	ms	28
Opening NC	min	ms	7
	max	ms	18

**UL technical data**

Rated operational voltage AC (UL) V 600

General USE

Auxiliary contacts

AC current A 10

Contact rating of auxiliary contacts according to UL A600 - P600

**Ambient conditions**

Temperature

Operating temperature

min °C -50  
max °C 70

Storage temperature

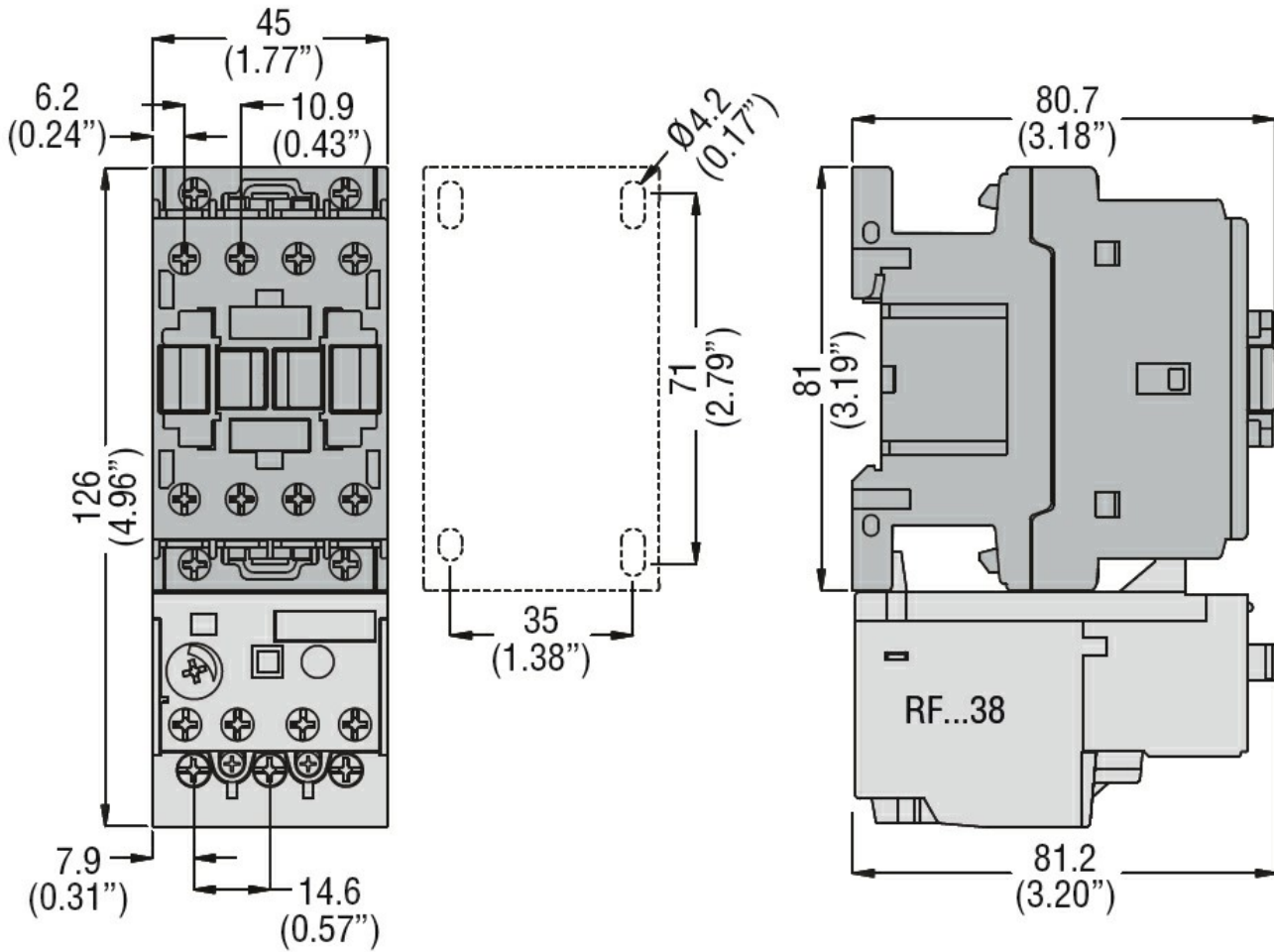
min °C -60  
max °C 80

Max altitude m 3000

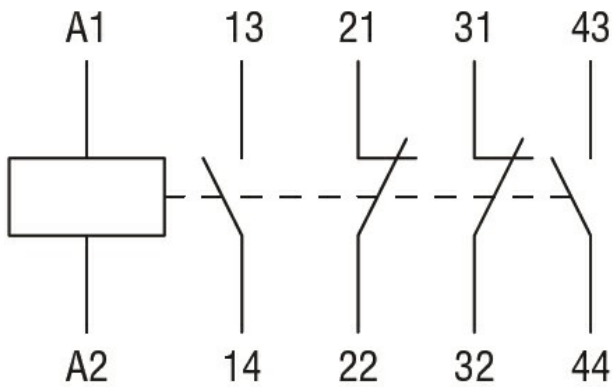
**Resistance & Protection**

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