



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 ² 1
	max	mm ² 6
	Flexible c/w lug conductor section	
	min	mm ² 1
	max	mm ² 4
Flexible with insulated spade lug conductor section		
min	mm ² 1	
max	mm ² 4	
Power terminal protection according to IEC/EN 60529	IP20 when properly wired	

Mechanical features

Operating position	normal allowable	Vertical plan $\pm 30^\circ$
		Screw / DIN rail 35mm
Fixing		
Weight	g	358

Auxiliary contact characteristics

Thermal current I _{th}		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 230

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	17
	max	ms	30
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

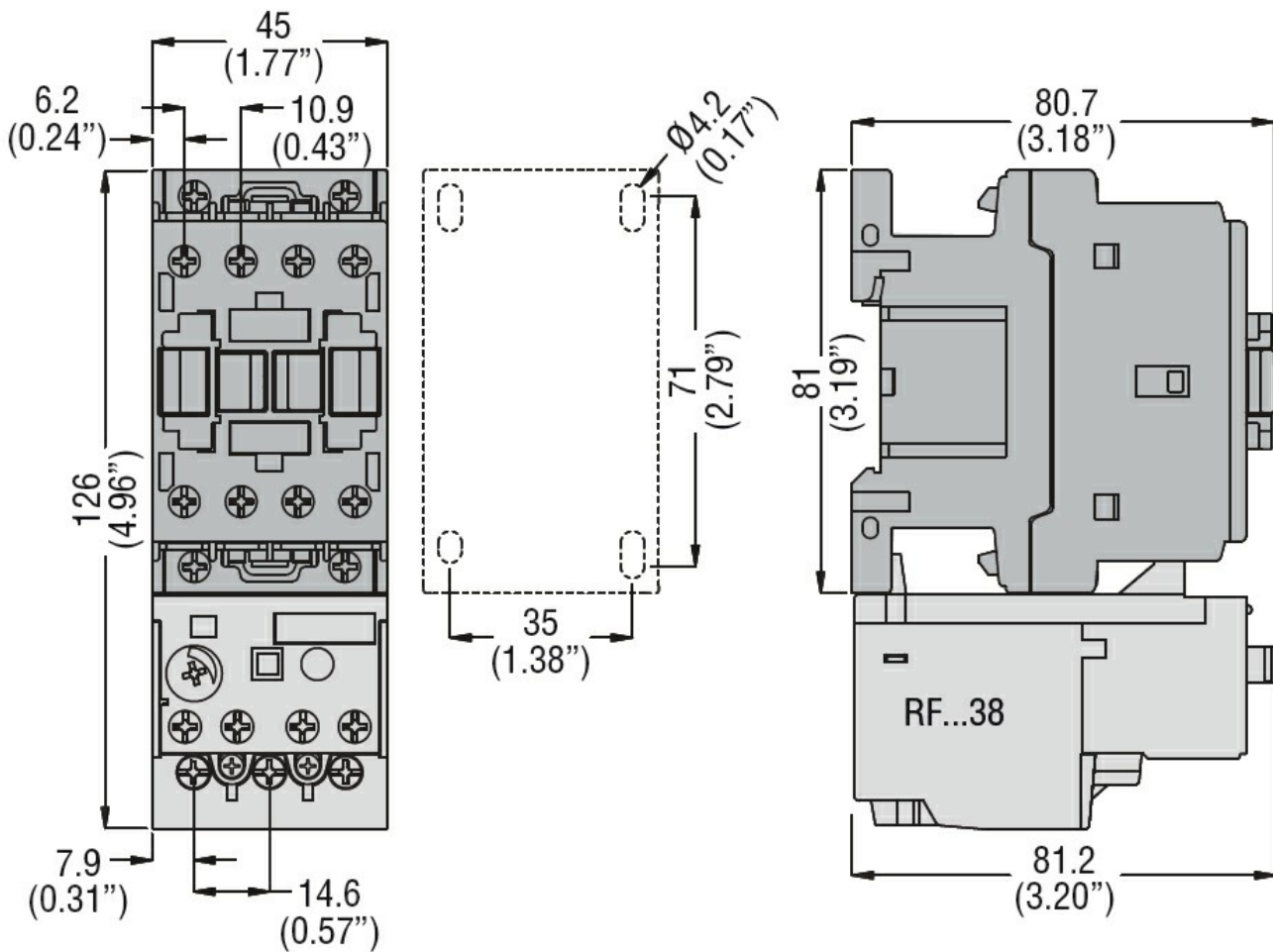
min °C -60
max °C 80

Max altitude m 3000

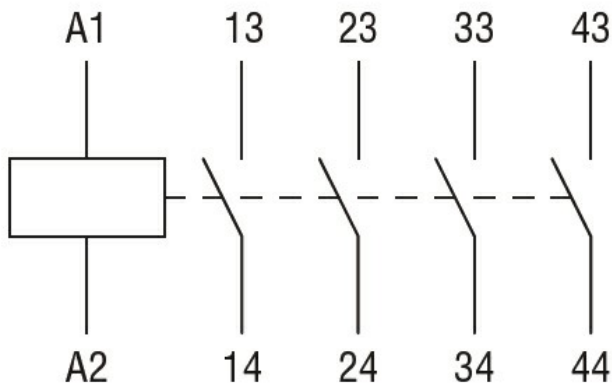
Resistance & Protection

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