



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	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		Vertical plan
	allowable		$\pm 30^\circ$
Fixing			Screw / DIN rail 35mm
Weight	g		360
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 48

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

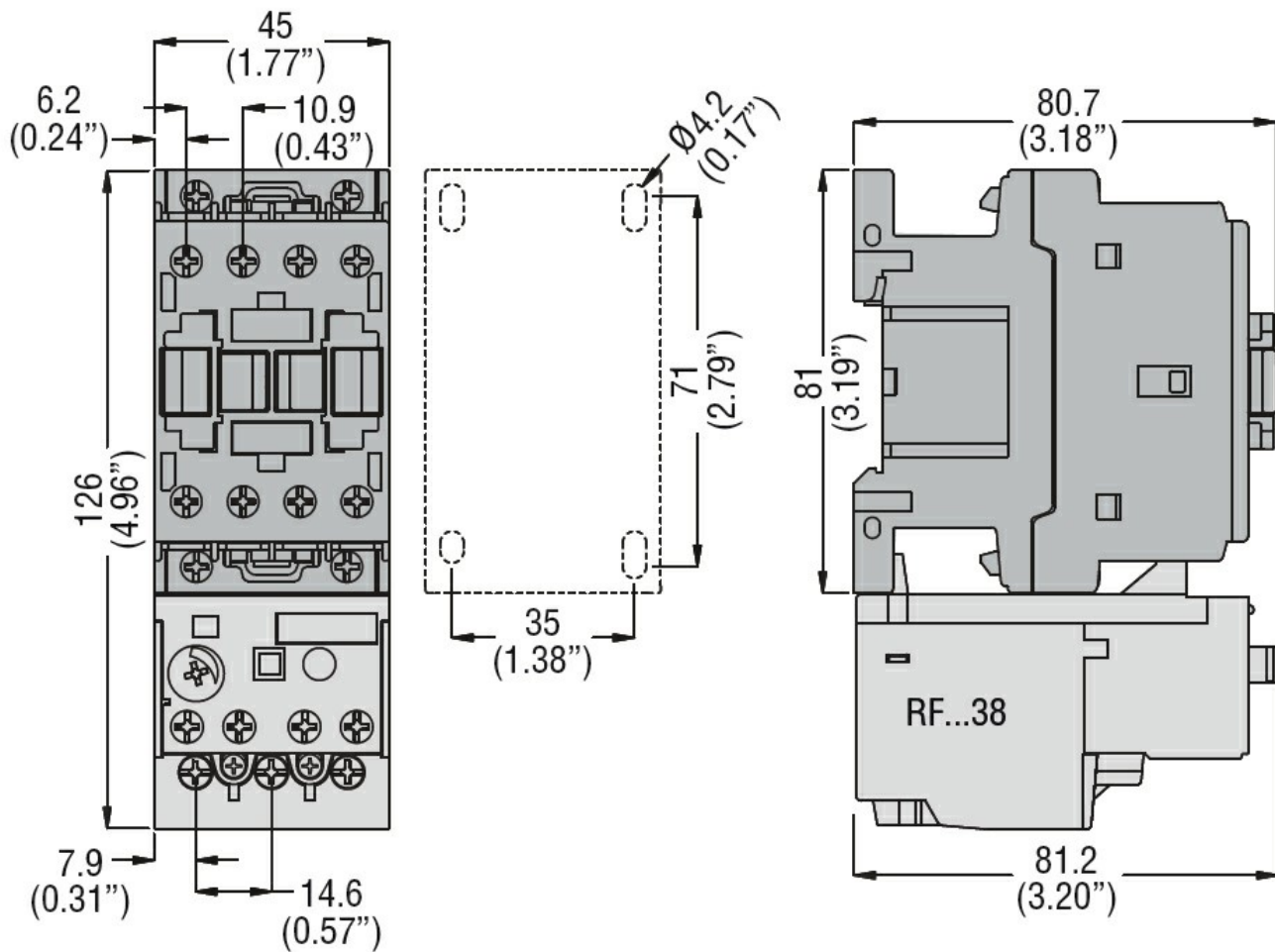
min	°C	-60
max	°C	80

Max altitude m 3000

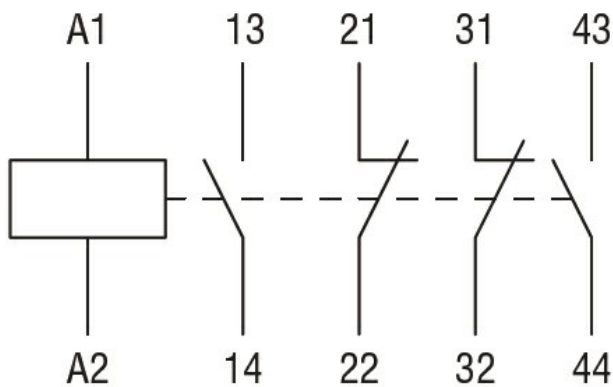
Resistance & Protection

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