



Product designation

Product type designation

Auxiliary
contactor
BF00

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}	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
allowable

Vertical plan
 $\pm 30^\circ$

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 holding	VA 75
		VA 9
of 50/60Hz coil powered at 60Hz	in-rush holding	VA 70
		VA 6.5
of 60Hz coil powered at 60Hz	in-rush holding	VA 75
		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	9
	max	ms	25
Opening NC	min	ms	9
	max	ms	15

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

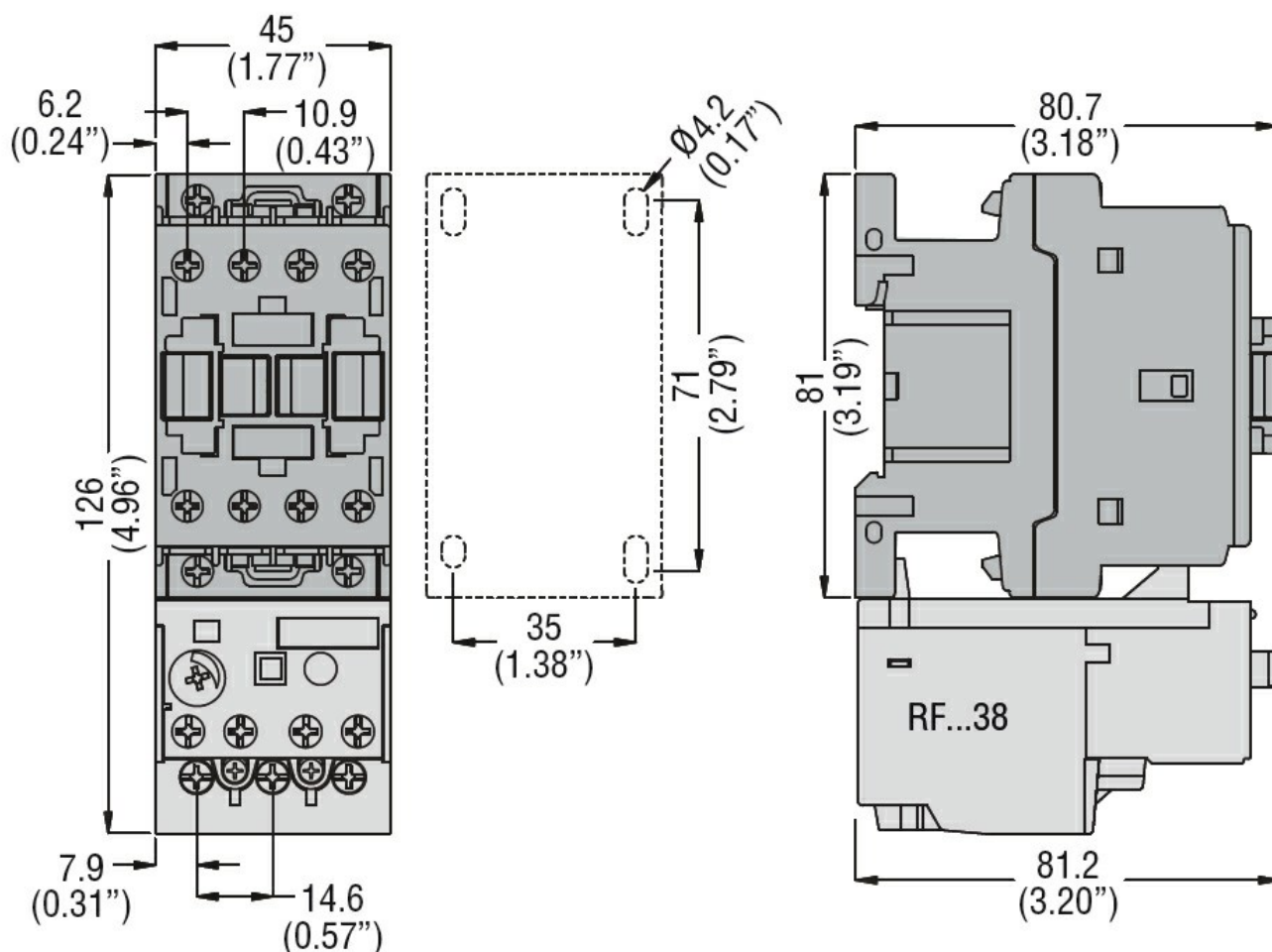
min °C -60
max °C 80

Max altitude m 3000

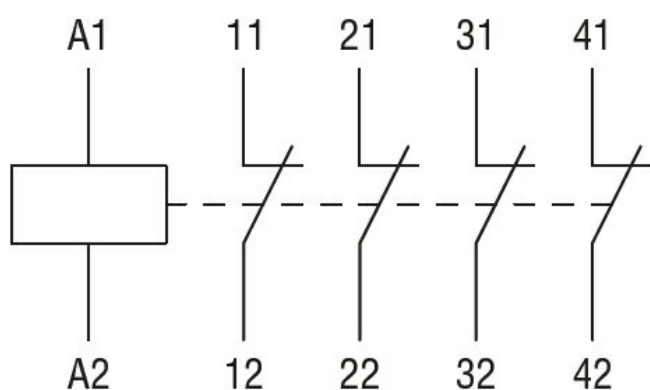
Resistance & Protection

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