



Product designation

Auxiliary
contactor
BF00

Product type designation

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
Operational current I_e	AC-1 ($\leq 55^\circ\text{C}$)	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 $\pm 30^\circ$
--------------------	------------------	------------------------------

Fixing				Screw / DIN rail 35mm
Weight	g			367
Conductor section	AWG/kcmil conductor section			
	max			10
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
Mirror contacts according to IEC/EN 60947-4-1				YES
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	17
	max	ms	30
Opening NC	min	ms	7
	max	ms	18

UL technical data

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

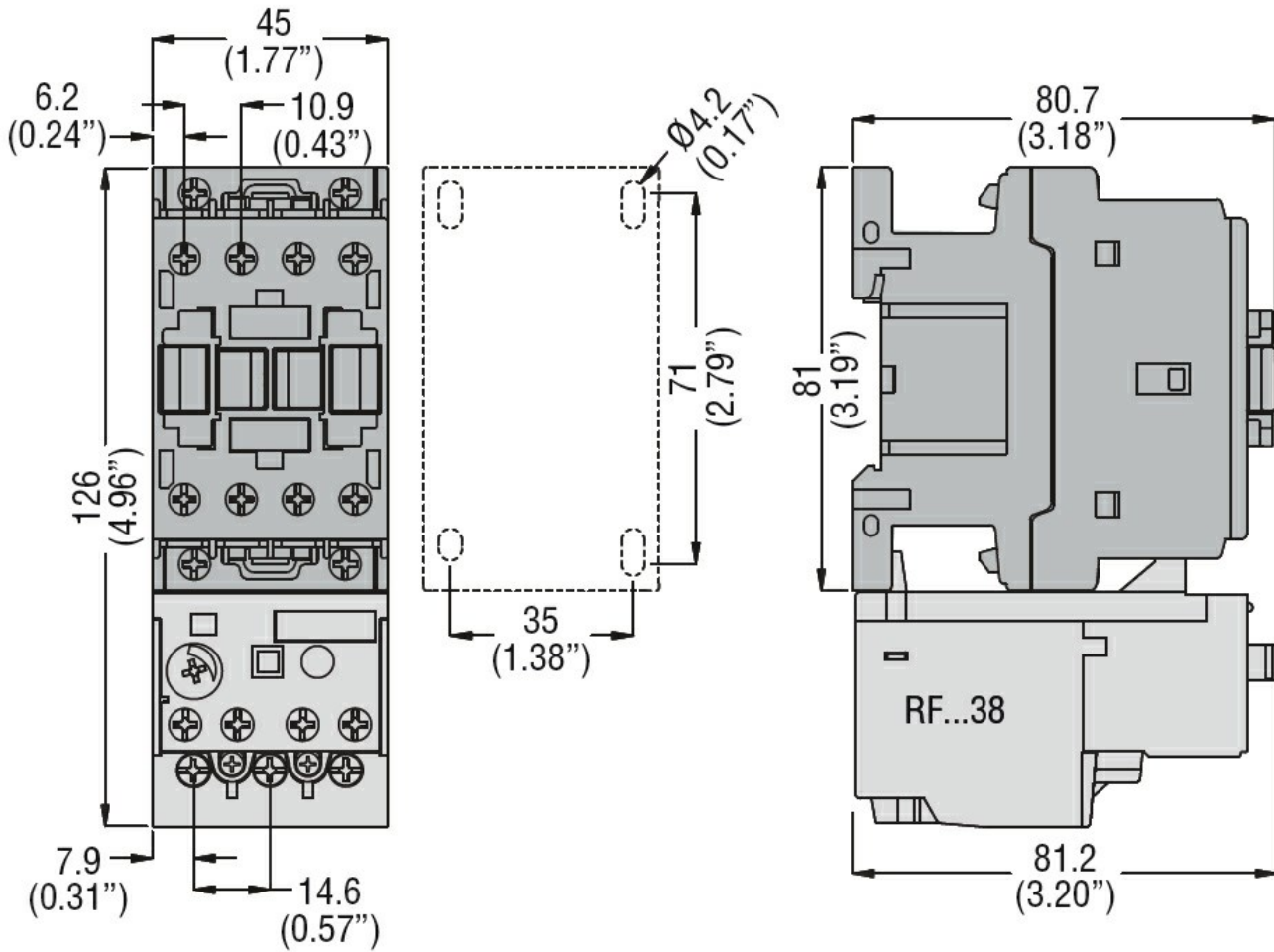
min	°C	-60
max	°C	80

Max altitude **m 3000**

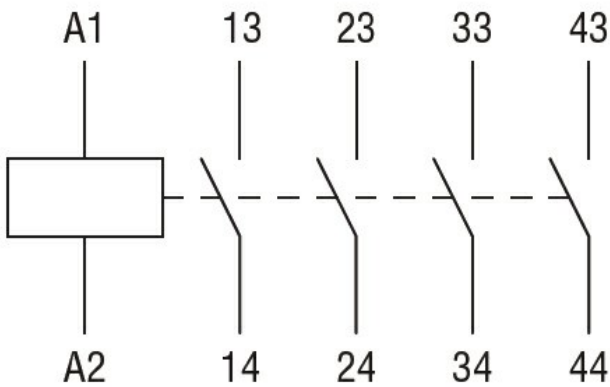
Resistance & Protection

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