



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
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 <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  
±30°

Fixing				Screw / DIN rail 35mm
Weight	g			362
Conductor section	AWG/kcmil conductor section			
	max			10
<b>Auxiliary contact characteristics</b>				
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
<b>Operations</b>				
Mechanical life	cycles			20000000
<b>Safety related data</b>				
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
<b>AC coil operating</b>				
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
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**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**

General USE

Auxiliary contacts

AC current	A	10
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Contact rating of auxiliary contacts according to UL A600 - P600

**Ambient conditions**

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

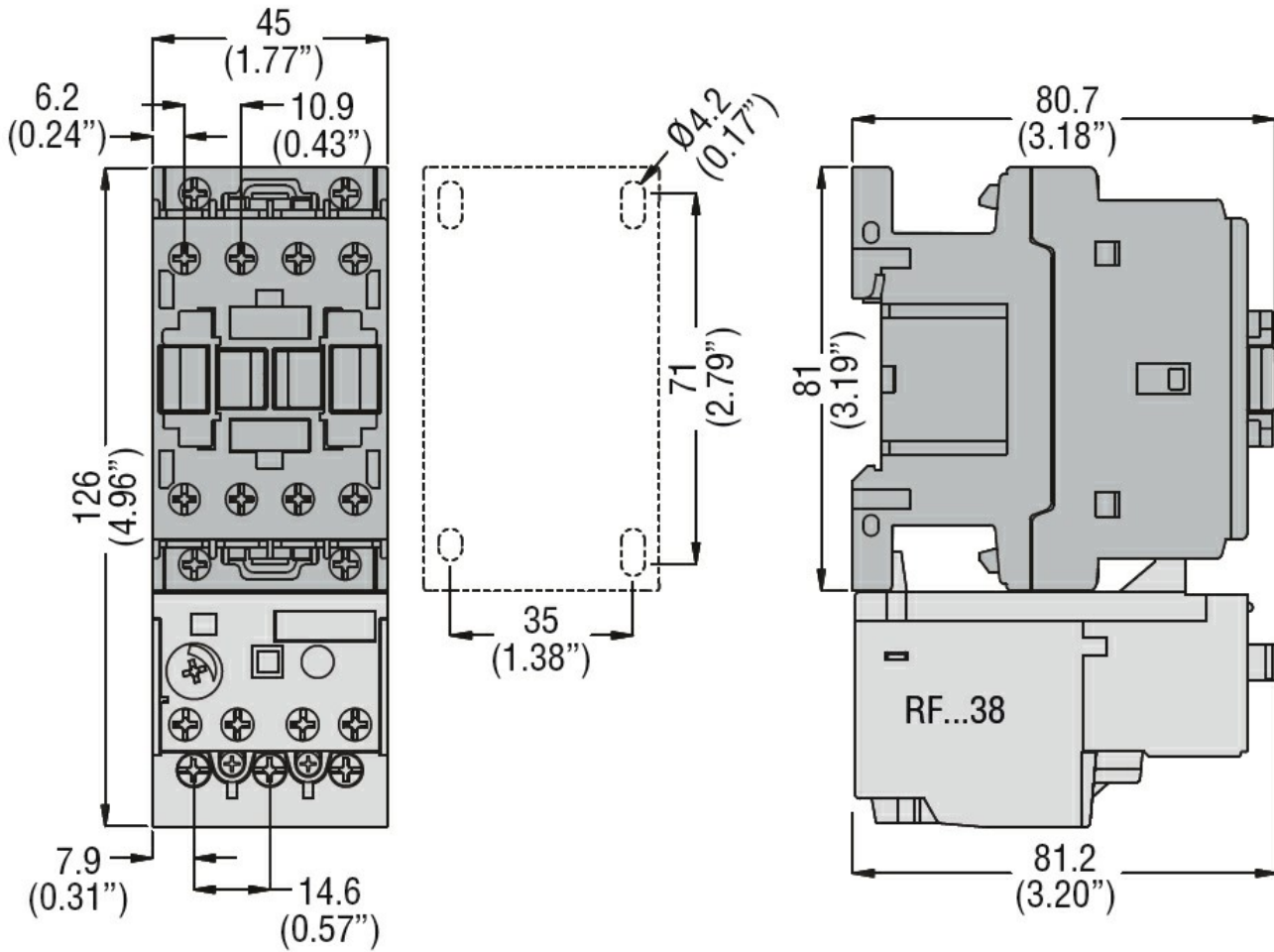
min	°C	-60
max	°C	80

Max altitude m 3000

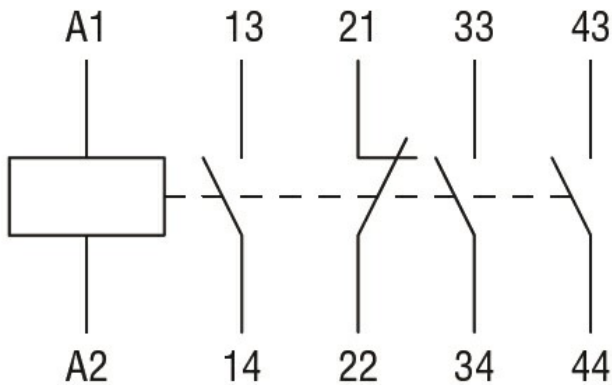
**Resistance & Protection**

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