



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
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Protection fuse

gG (IEC)	A	25
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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
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Conductor section

AWG/Kcmil

max	10
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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°
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Fixing

Screw / DIN rail  
35mm

Weight

g	364
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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	24
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 $\leq 20^{\circ}\text{C}$ 50Hz		W	2.5

**Max cycles frequency**

Mechanical operation		cycles/h	3600
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**Operating times**

Average time for  $U_s$  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**

General USE

Auxiliary contacts

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

Temperature

Operating temperature

min	$^{\circ}\text{C}$	-50
max	$^{\circ}\text{C}$	70

Storage temperature

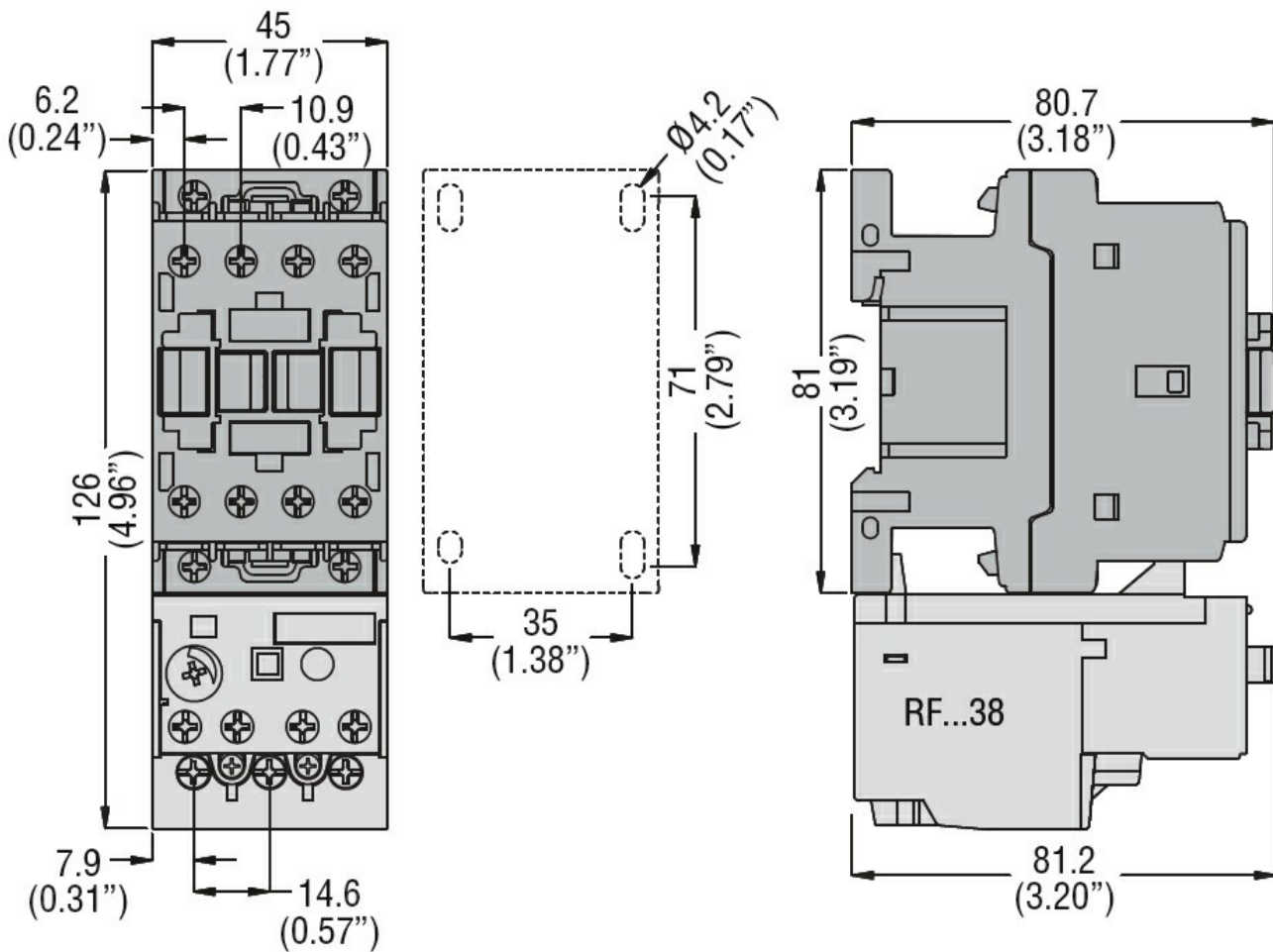
min	$^{\circ}\text{C}$	-60
max	$^{\circ}\text{C}$	80

Max altitude		m	3000
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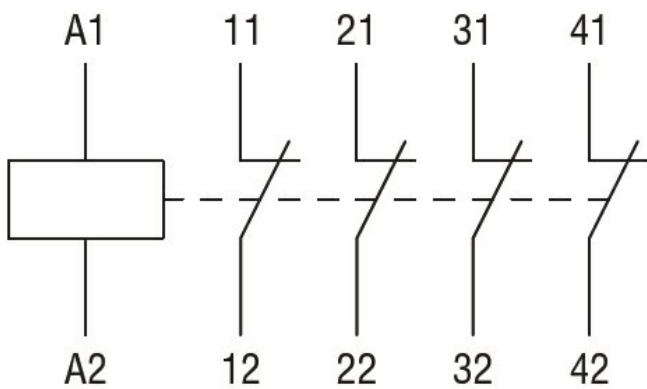
**Resistance & Protection**

Pollution degree			3
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**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