



Product designation	Auxiliary contactor		
Product type designation	BF00		
<b>Contact characteristics</b>			
Number of poles	Nr.	4	
Rated insulation voltage $Ui$ IEC/EN	V	690	
Rated impulse withstand voltage $Uimp$	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $Ith$	A	10	
Operational current $Ie$	AC-1 ( $\leq 55^{\circ}\text{C}$ )	A	0
Short-time allowable current for 10s (IEC/EN60947-1)	A	0	
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	
<b>Conductor section</b>			
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 wired		
<b>Mechanical features</b>			
Operating position	normal allowable		Vertical plan $\pm 30^{\circ}$

Fixing	Screw / DIN rail 35mm		
Weight	g 500		
Conductor section	AWG/kcmil conductor section		
	max		10
<b>Auxiliary contact characteristics</b>			
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
<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 609474-4-1			YES
EMC compatibility			yes
<b>DC coil operating</b>			
DC rated control voltage	V	48	
DC operating voltage	pick-up	min	%Us 80
		max	%Us 110
	drop-out	min	%Us 10
		max	%Us 40
Average coil consumption $\leq 20^\circ\text{C}$	in-rush	W	2.4
	holding	W	2.4
<b>Max cycles frequency</b>			
Mechanical operation	cycles/h	3600	
<b>Operating times</b>			
Average time for Us control	in DC	Closing NO	
		min	ms 75
		max	ms 91
	Opening NO	min	ms 15
		max	ms 19

Closing NC	min	ms	24
	max	ms	30
Opening NC	min	ms	67
	max	ms	81

**UL technical data**

General USE

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

Ambient conditions

Temperature

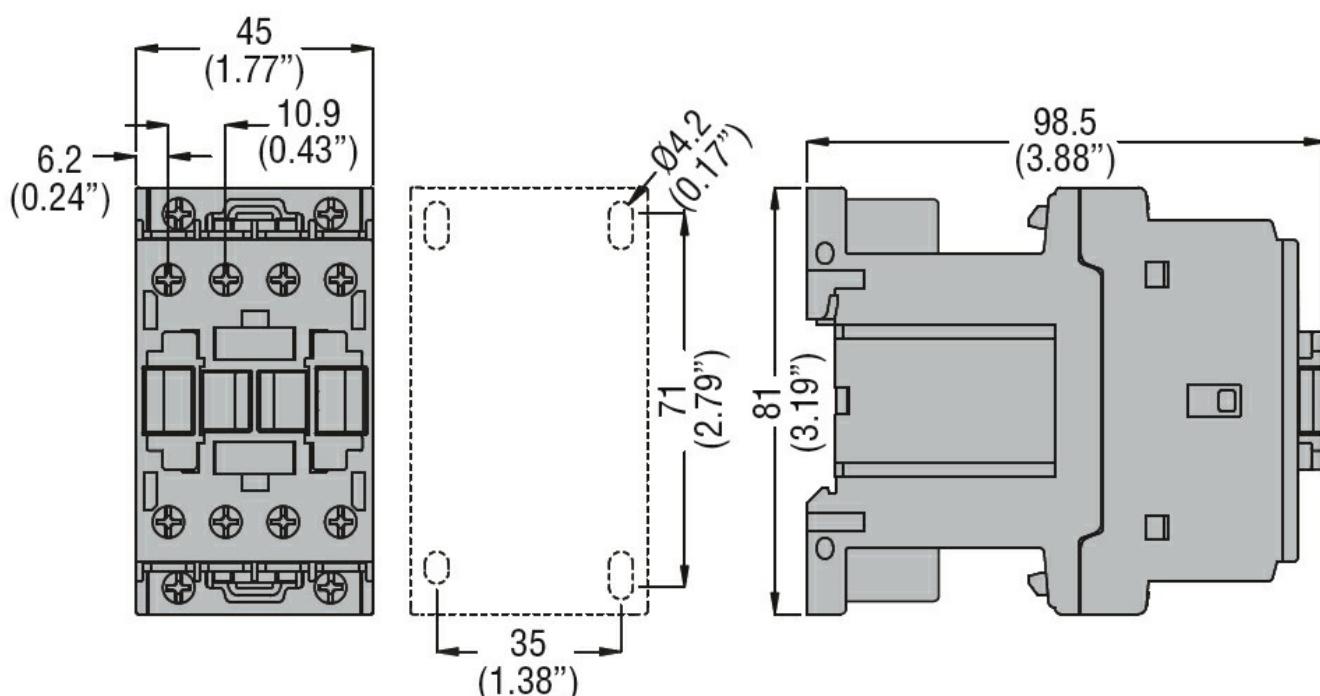
Operating temperature	min	°C	-50
Storage temperature	min	°C	-60
	max	°C	80

Max altitude	m	3000
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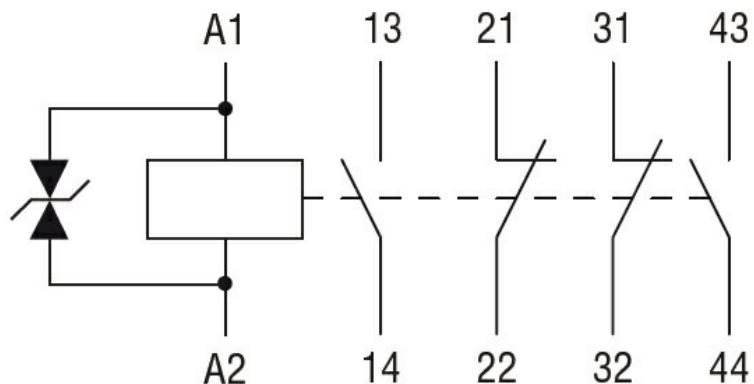
Resistance & Protection

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