



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
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 $\text{mm}^2$	1
	max $\text{mm}^2$	6
Flexible c/w lug conductor section	min $\text{mm}^2$	1
	max $\text{mm}^2$	4
Flexible with insulated spade lug conductor section	min $\text{mm}^2$	1
	max $\text{mm}^2$	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	348	
Auxiliary contact characteristics			
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
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 60Hz	V	220	
AC operating voltage			
of 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 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 U <sub>s</sub> control			
in AC			
Closing NO			
	min	ms	8
	max	ms	24
Opening NO			
	min	ms	10
	max	ms	20
Closing NC			
	min	ms	17

Opening NC	max	ms	30
	min	ms	7
	max	ms	18

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

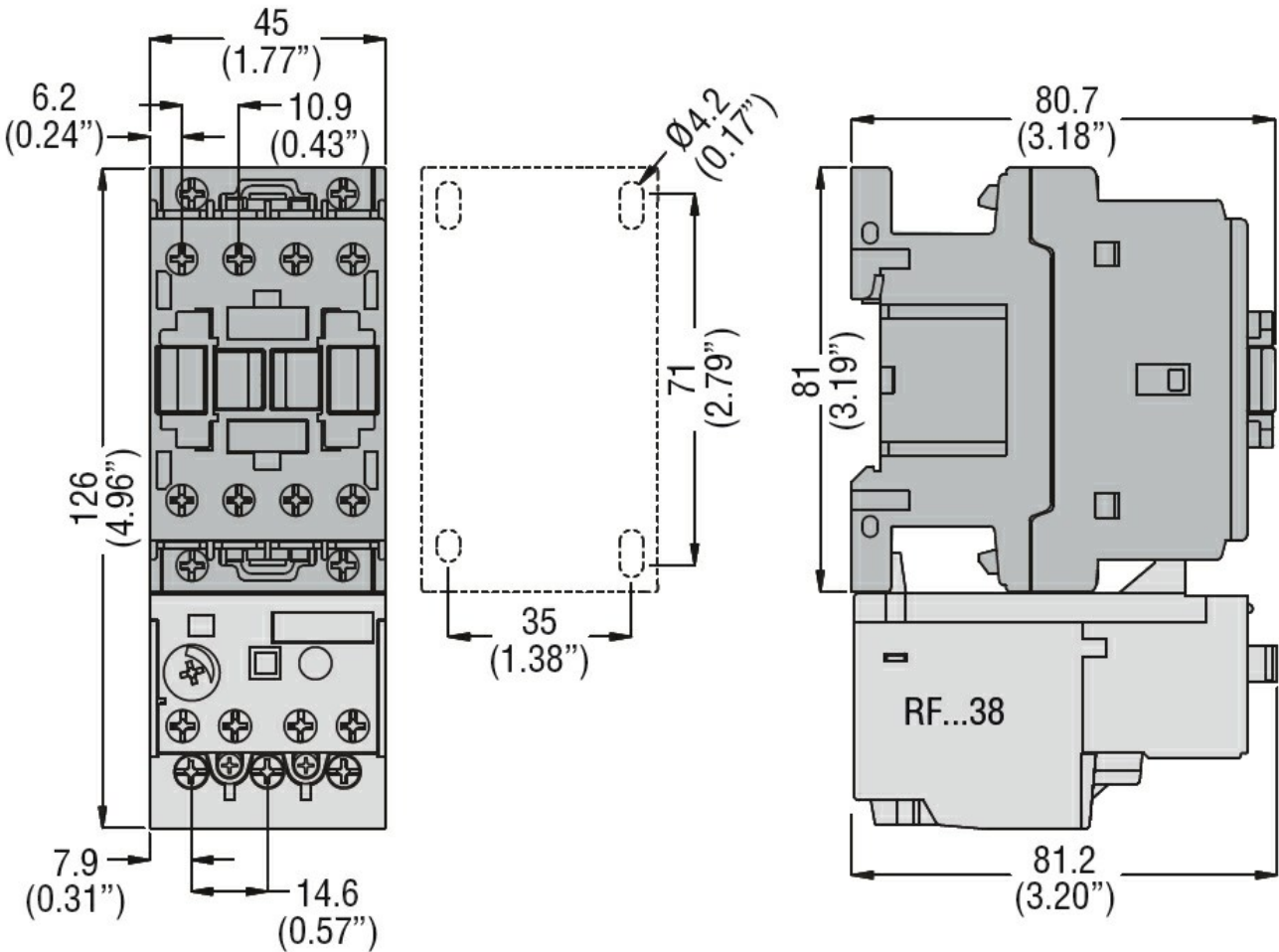
min	°C	-60
max	°C	80

Max altitude	m	3000
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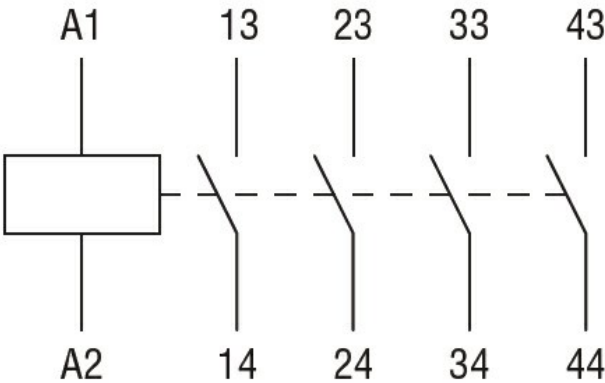
Resistance & Protection

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
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