



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
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Operational current I_e

AC-1 (=55°C)	A	0
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Short-time allowable current for 10s (IEC/EN60947-1)

A	0
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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 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 wired

Mechanical features

Operating position

normal allowable	Vertical plan ±30°
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Fixing				Screw / DIN rail 35mm
Weight	g			352
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 60Hz	V			120
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 _s 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

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

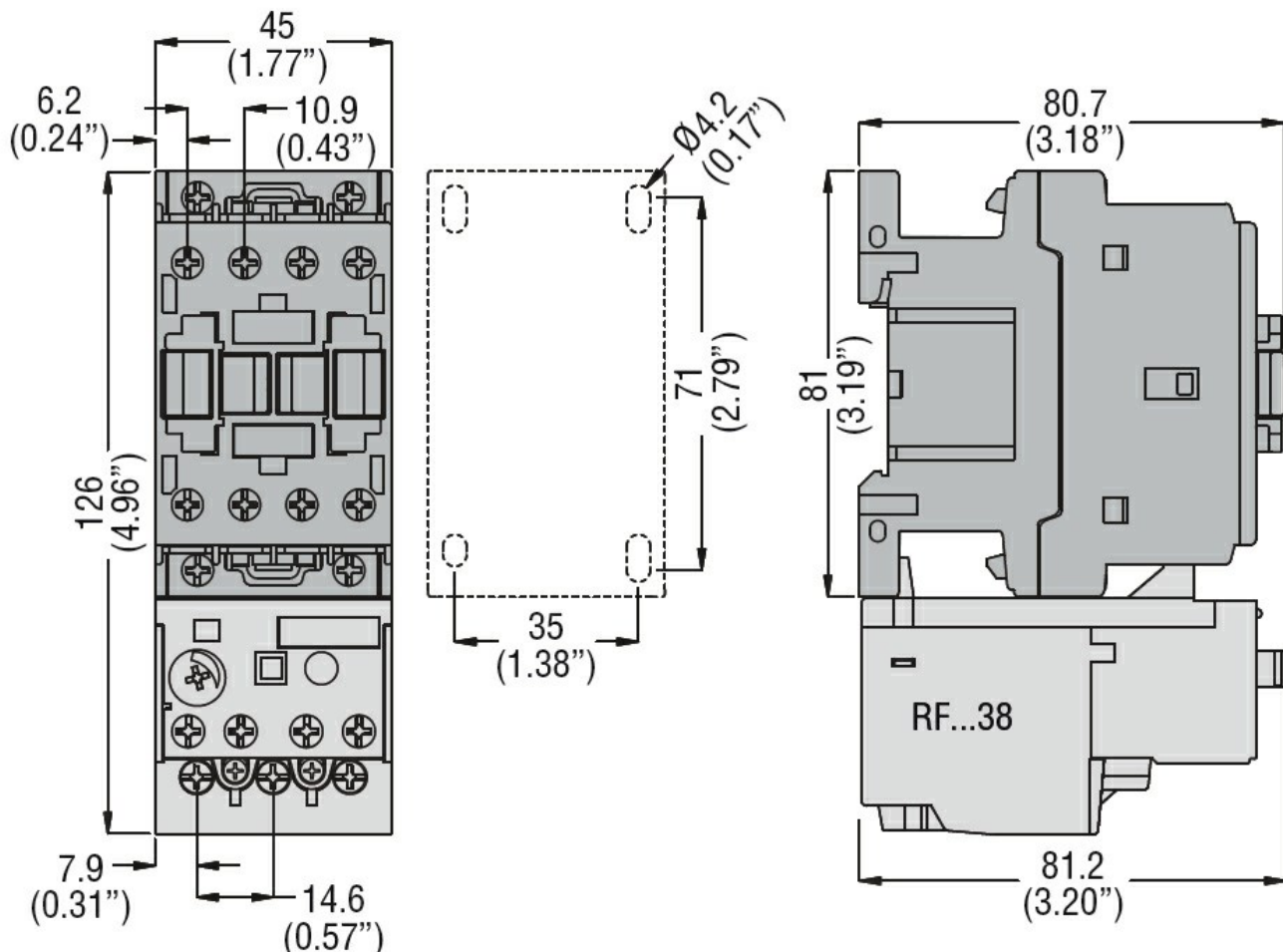
m 3000

Resistance & Protection

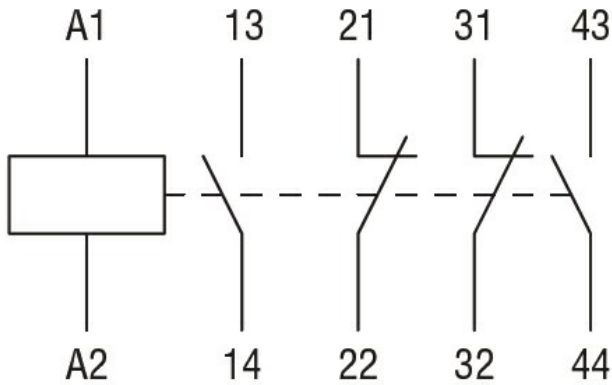
Pollution degree

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