



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
---	----

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	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	356
---	-----

Conductor section	AWG/kcmil conductor section		
	max	10	
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
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz	V	575	
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	9
max	ms	25

Opening NC

min	ms	9
max	ms	15

## 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

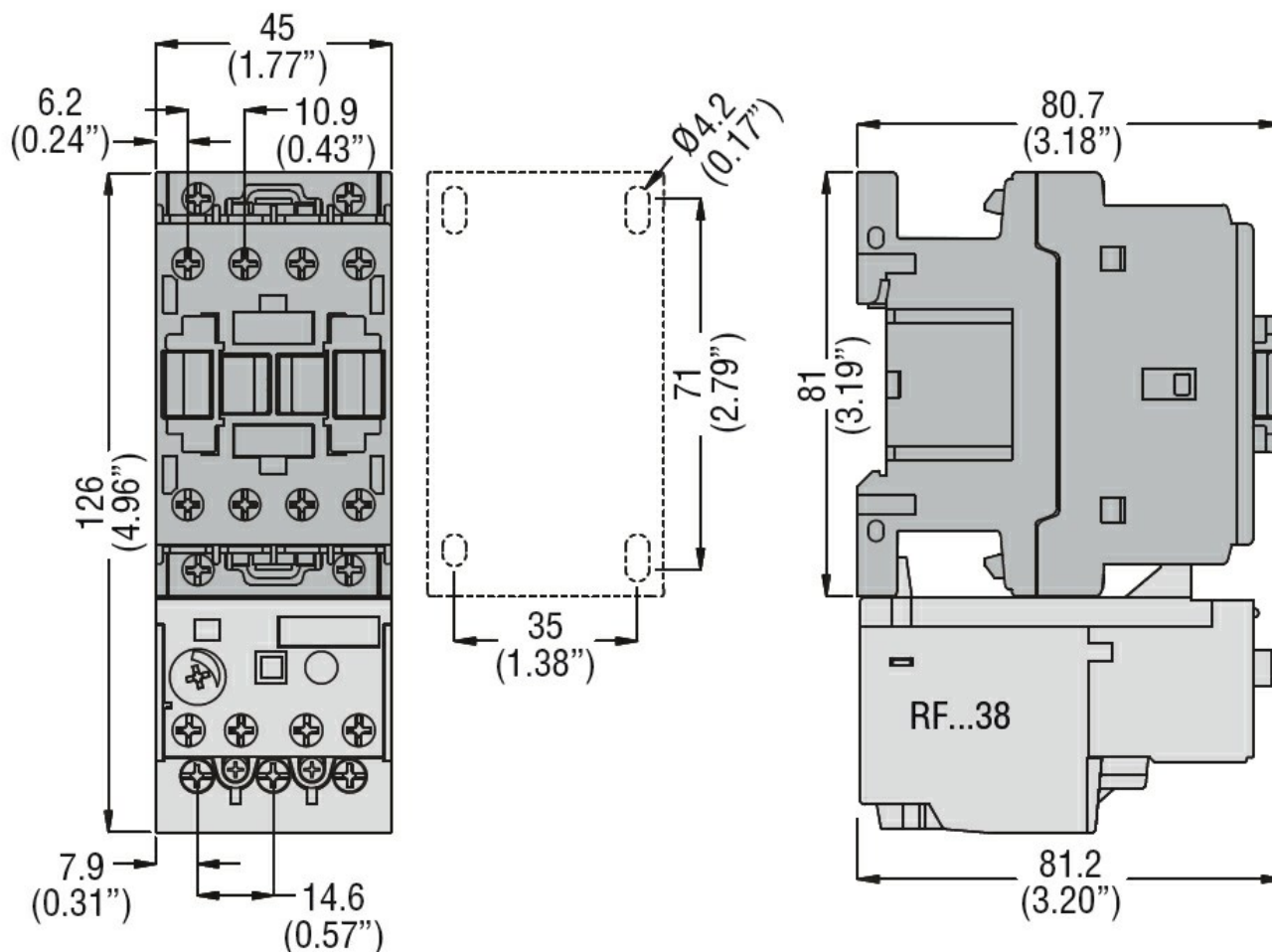
m 3000

## Resistance & Protection

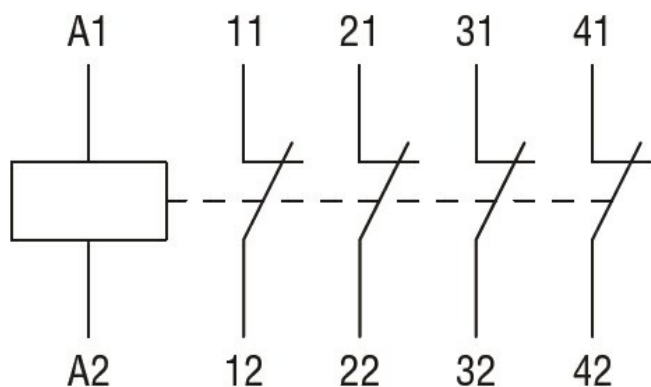
Pollution degree

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