



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

Operational current I_e

AC-1 ($\leq 55^{\circ}\text{C}$)	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	Ibin	1.1
max	Ibin	1.5

Tightening torque for coil terminal

min	Nm	0.8
max	Nm	1
min	Ibin	0.8
max	Ibin	0.74

Max number of wires simultaneously connectable

Nr. 2

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
properly wired

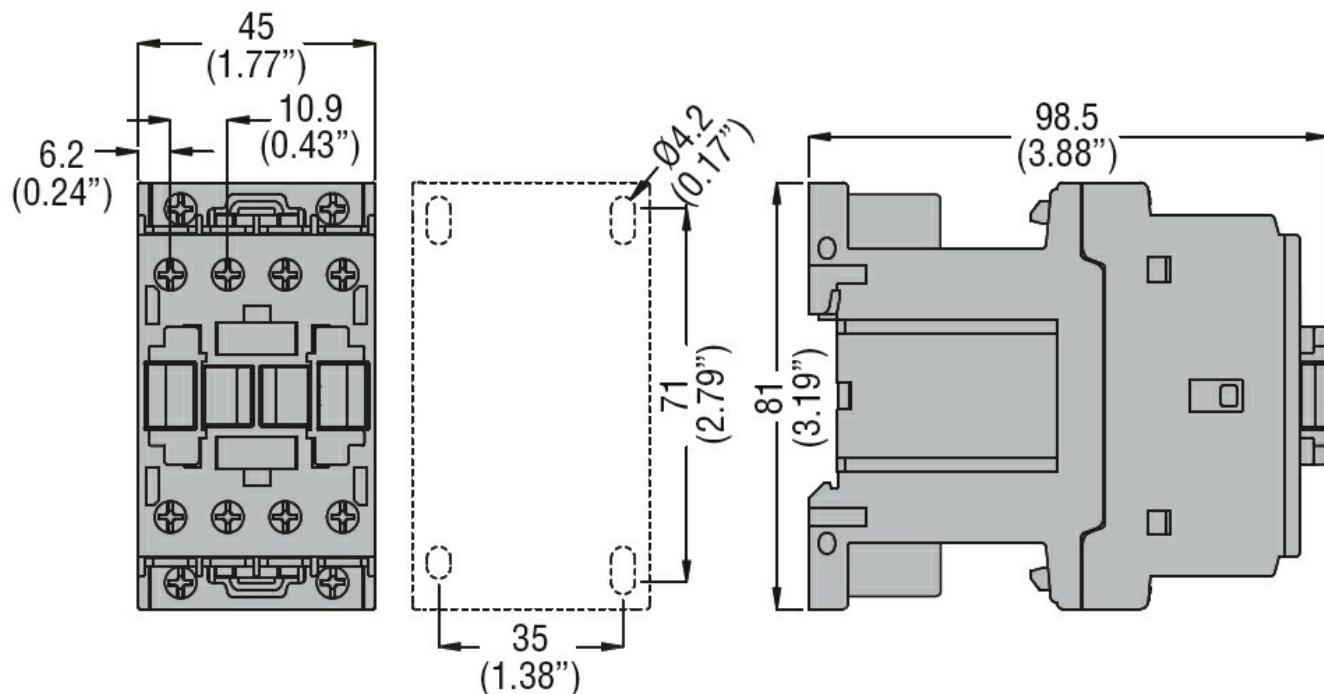
Mechanical features

Operating position

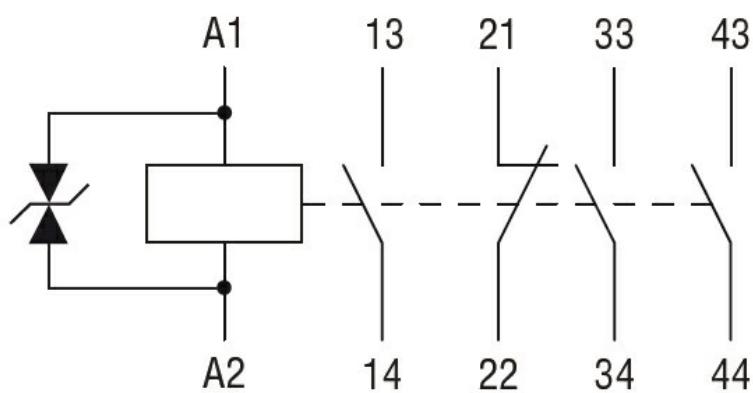
normal allowable	Vertical plan $\pm 30^{\circ}$
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Fixing	Screw / DIN rail 35mm		
Weight	g 500		
Auxiliary contact characteristics			
Thermal current I_{th}	A 10		
IEC/EN 60947-5-1 designation	A600 - P600		
Operating current AC15	230V	A	3
	400V	A	1.9
	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
EMC compatibility	yes		
DC coil operating			
DC rated control voltage	V	24	
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
Max cycles frequency			
Mechanical operation	cycles/h 3600		
Operating times			
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

UL technical data	max	ms	81
Rated operational voltage AC (UL)	V	600	
General USE			
Auxiliary contacts			
AC current	A	10	
Contact rating of auxiliary contacts according to UL			
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			
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