



Product designation

Auxiliary  
contactor  
BGF00

Product type designation

Contact characteristics

Number of poles

Nr. 4

Rated insulation voltage  $Ui$  IEC/EN

V 690

Rated impulse withstand voltage  $Ui_{imp}$

kV 6

Operational frequency

min	Hz	25
max	Hz	400

IEC Conventional free air thermal current  $I_{th}$

A 10

Short-time allowable current for 10s (IEC/EN60947-1)

A 0

Protection fuse

gG (IEC)	A	16
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Tightening torque for terminals

min	Nm	0.8
max	Nm	1
min	lbin	9
max	lbin	9

Tightening torque for coil terminal

min	Nm	0.8
max	Nm	1
min	lbin	9
max	lbin	9

Max number of wires simultaneously connectable

Nr. 2

Conductor section

AWG/Kcmil

max		12
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Flexible w/o lug conductor section

min	mm <sup>2</sup>	0.75
max	mm <sup>2</sup>	2.5

Flexible c/w lug conductor section

min	mm <sup>2</sup>	1.5
max	mm <sup>2</sup>	2.5

Flexible with insulated spade lug conductor section

min	mm <sup>2</sup>	1.5
max	mm <sup>2</sup>	2.5

Power terminal protection according to IEC/EN 60529

IP20 when wired

Mechanical features

Operating position

normal		Vertical plan
allowable		±30°

Fixing

Screw / DIN rail  
35mm

Weight

g	180
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Conductor section

AWG/kcmil conductor section

max 12

**Auxiliary contact characteristics**

Thermal current  $I_{th}$  A 10

IEC/EN 60947-5-1 designation A600 - Q600

Operating current AC15

230V	A	3
400V	A	1.9
500V	A	1.4

Operating current DC12

110V	A	2.9
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Operating current DC13

24V	A	2.9
48V	A	1.4
60V	A	1.1
125V	A	0.3
220V	A	0.1
600V	A	0.6

**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 609474-4-1 YES

EMC compatibility yes

**AC coil operating**

Rated AC voltage at 50/60Hz V 110

AC operating voltage

of 50/60Hz coil powered at 50Hz	pick-up	min	%Us	75
		max	%Us	115
drop-out		min	%Us	20
		max	%Us	55

of 50/60Hz coil powered at 60Hz	pick-up	min	%Us	80
		max	%Us	115
drop-out		min	%Us	20
		max	%Us	55

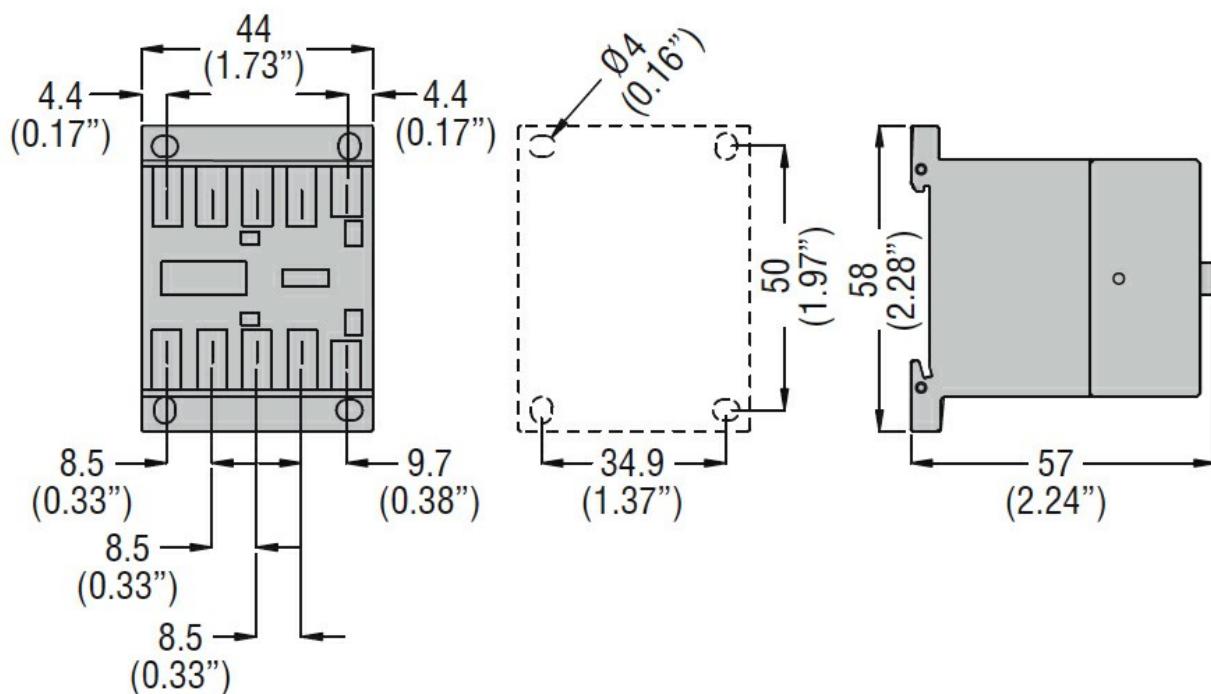
AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz	in-rush	VA	30
	holding	VA	4

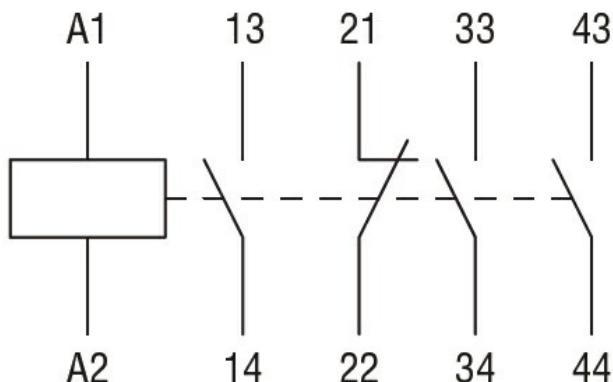
of 50/60Hz coil powered at 60Hz	in-rush	VA	25
	holding	VA	3

of 60Hz coil powered at 60Hz	in-rush	VA	30
	holding	VA	4

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz	W	0.95
Max cycles frequency		
Mechanical operation	cycles/h	3600
Operating times		
Average time for Us control in AC		
Closing NO		
min	ms	12
max	ms	21
Opening NO		
min	ms	9
max	ms	18
Closing NC		
min	ms	17
max	ms	26
Opening NC		
min	ms	7
max	ms	17
in DC		
Closing NO		
min	ms	18
max	ms	25
Opening NO		
min	ms	2
max	ms	3
Closing NC		
min	ms	3
max	ms	5
Opening NC		
min	ms	11
max	ms	17
UL technical data		
Contact rating of auxiliary contacts according to UL		A600 - Q600
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