



Auxiliary  
contactor  
BGF00

Product designation

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 max	Hz Hz 25 400
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
Tightening torque for terminals	min max min max	Nm Nm lbin lbin 0.8 1 9 9
Tightening torque for coil terminal	min max min max	Nm Nm lbin lbin 0.8 1 9 9
Max number of wires simultaneously connectable	Nr.	2

Conductor section

AWG/Kcmil

	max	12
Flexible w/o lug conductor section	min max	mm <sup>2</sup> mm <sup>2</sup> 0.75 2.5
Flexible c/w lug conductor section	min max	mm <sup>2</sup> mm <sup>2</sup> 1.5 2.5
Flexible with insulated spade lug conductor section	min max	mm <sup>2</sup> mm <sup>2</sup> 1.5 2.5

Power terminal protection according to IEC/EN 60529 IP20 when wired

**Mechanical features**

Operating position

	normal allowable	Vertical plan $\pm 30^\circ$
Fixing		Screw / DIN rail 35mm
Weight	g	180

**Conductor section**

AWG/kcmil conductor section

max 12

**Auxiliary contact characteristics**

Thermal current I<sub>th</sub> 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

**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 60947-4-1 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	%U <sub>s</sub>	75
max	%U <sub>s</sub>	115

drop-out

min	%U <sub>s</sub>	20
max	%U <sub>s</sub>	55

of 50/60Hz coil powered at 60Hz  
pick-up

min	%U <sub>s</sub>	80
max	%U <sub>s</sub>	115

drop-out

min	%U <sub>s</sub>	20
max	%U <sub>s</sub>	55

**AC average coil consumption at 20°C**

of 50/60Hz coil powered at 50Hz

in-rush	VA	30
holding	VA	4

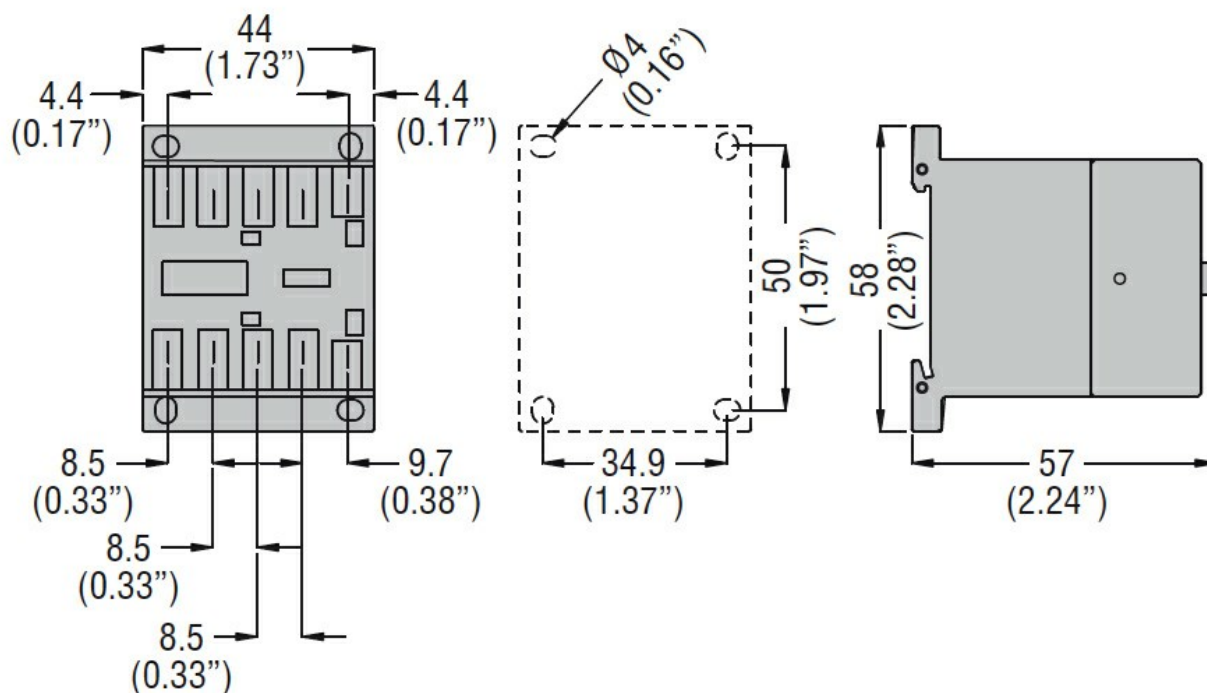
of 50/60Hz coil powered at 60Hz

in-rush	VA	25
holding	VA	3

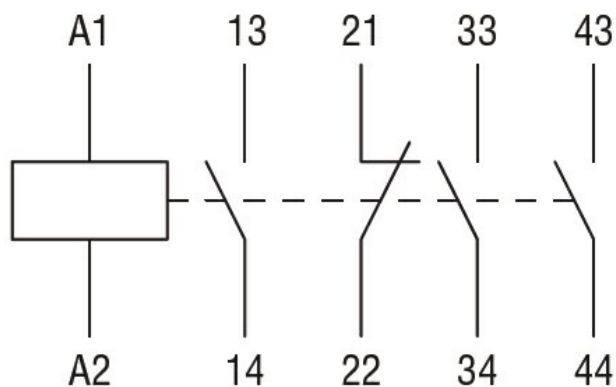
of 60Hz coil powered at 60Hz

in-rush	VA	30
holding	VA	4

Dissipation at holding ≤20°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