



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	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
Tightening torque for terminals	min	Nm 0.8
	max	Nm 1
	min	Ibin 9
	max	Ibin 9
Tightening torque for coil terminal	min	Nm 0.8
	max	Nm 1
	min	Ibin 9
	max	Ibin 9
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	12
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 properly wired

**Mechanical features**

Operating position	normal	Vertical plan
	allowable	±30°
Fixing		Screw / DIN rail 35mm
Weight	g	178

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
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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
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Mirror contacts according to IEC/EN 60947-4-1

YES

EMC compatibility

yes

**AC coil operating**

Rated AC voltage at 50/60Hz V 24

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

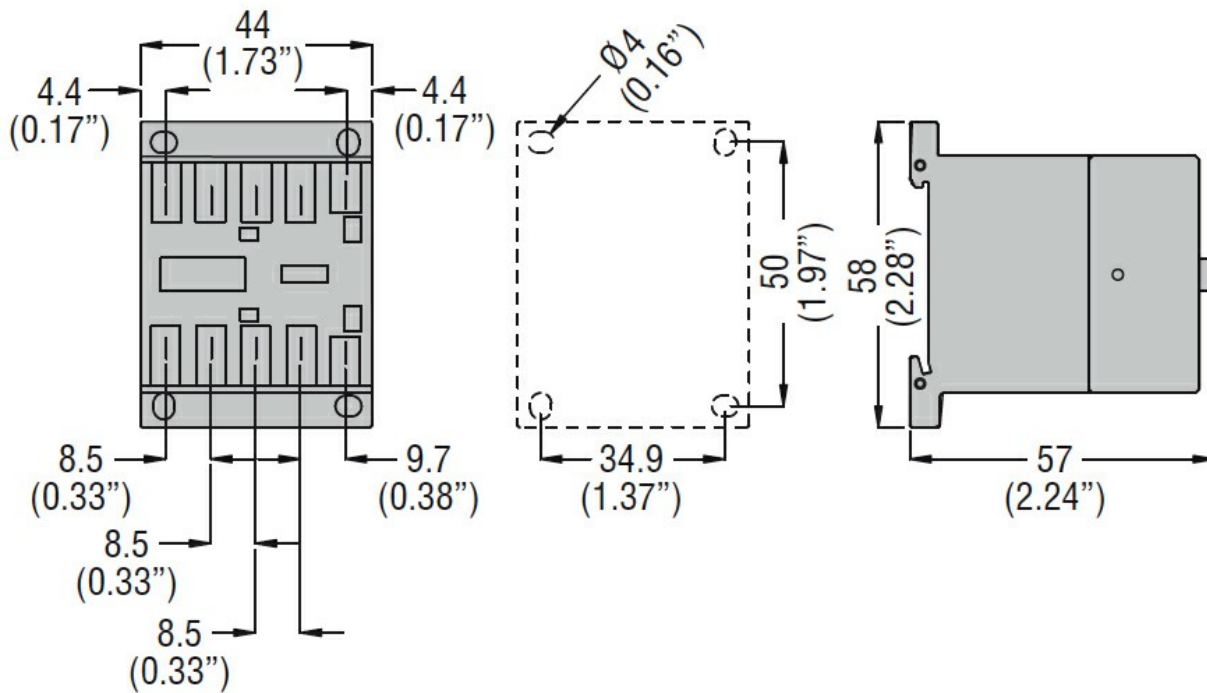
of 50/60Hz coil powered at 60Hz

in-rush	VA	25
holding	VA	3

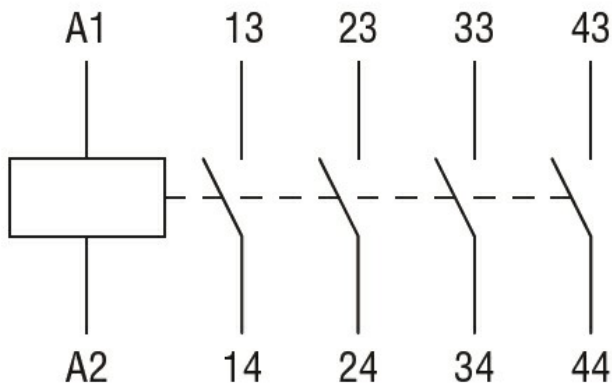
of 60Hz coil powered at 60Hz

in-rush	VA	30
holding	VA	4

Dissipation at holding ≤20°C 50Hz	W	0.95
<b>Max cycles frequency</b>		
Mechanical operation	cycles/h	3600
<b>Operating times</b>		
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
<b>UL technical data</b>		
Contact rating of auxiliary contacts according to UL		A600 - Q600
<b>Ambient conditions</b>		
Temperature		
Operating temperature		
	min	°C -50
	max	°C +70
Storage temperature		
	min	°C -60
	max	°C +80
Max altitude	m	3000
<b>Resistance &amp; Protection</b>		
Pollution degree		3
<b>Dimensions</b>		



### 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