



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  
allowable      Vertical plan  
±30°

Fixing

Screw / DIN rail  
35mm

Weight

g 178

Conductor section	AWG/kcmil conductor section			max	12
<b>Auxiliary contact characteristics</b>					
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
<b>Operations</b>					
Mechanical life				cycles	20000000
<b>Safety related data</b>					
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	
<b>AC coil operating</b>					
Rated AC voltage at 60Hz				V	48
AC operating voltage	of 60Hz coil powered at 60Hz				
	pick-up			min	%Us 75
				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 U <sub>s</sub> 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
<hr/>				
	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**

General USE

Contactor

AC current A 10

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

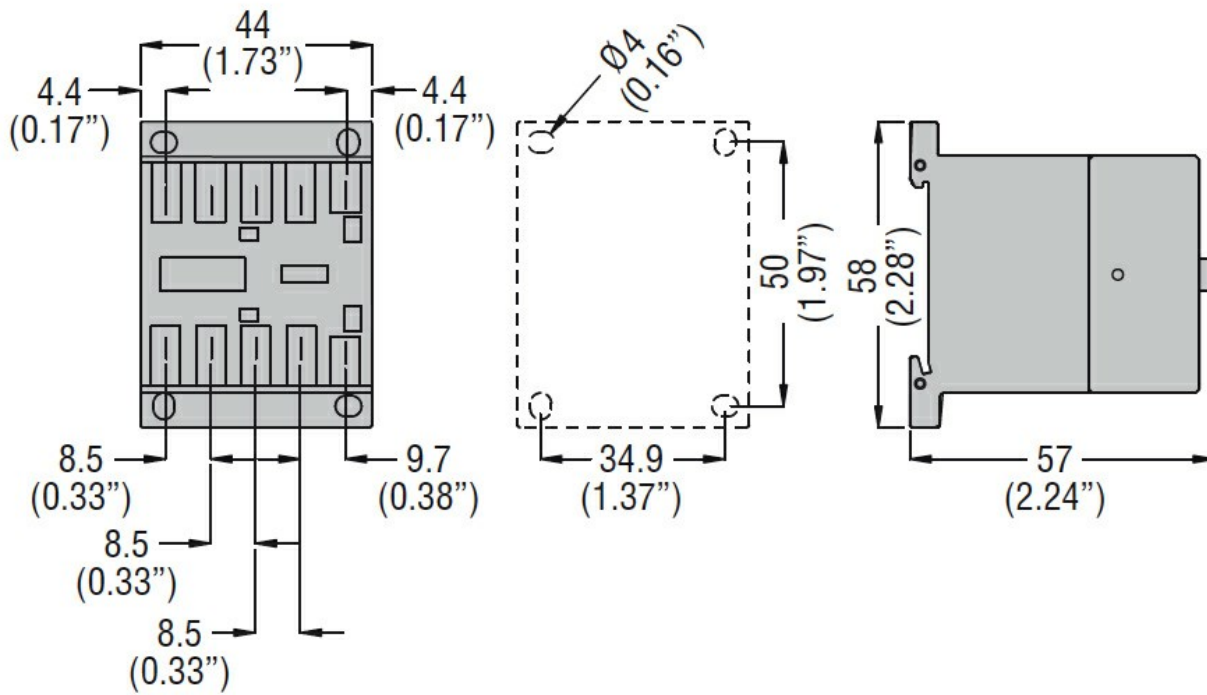
m 3000

**Resistance & Protection**

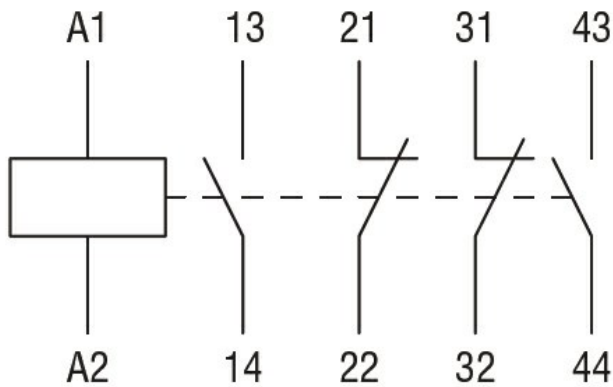
Pollution degree

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