



Product designation	Auxiliary contactor <b>BGF00</b>		
Product type designation			
<b>Contact characteristics</b>			
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	
<b>Conductor section</b>			
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 properly wired		
<b>Mechanical features</b>			
Operating position	normal allowable	Vertical plan $\pm 30^\circ$	
Fixing	Screw / DIN rail 35mm		

Weight	g	181
<b>Auxiliary contact characteristics</b>		
Thermal current $I_{th}$	A	10
IEC/EN 60947-5-1 designation		A600 - Q600
<b>Operating current AC15</b>		
	230V	A 3
	400V	A 1.9
	500V	A 1.4
<b>Operating current DC12</b>		
	110V	A 2.9
<b>Operating current DC13</b>		
	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
<b>EMC compatibility</b>		
		yes
<b>AC coil operating</b>		
Rated AC voltage at 50/60Hz	V	230
<b>AC operating voltage</b>		
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
<b>AC average coil consumption at 20°C</b>		
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
<b>Max cycles frequency</b>		
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**

Rated operational voltage AC (UL)

V 600

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

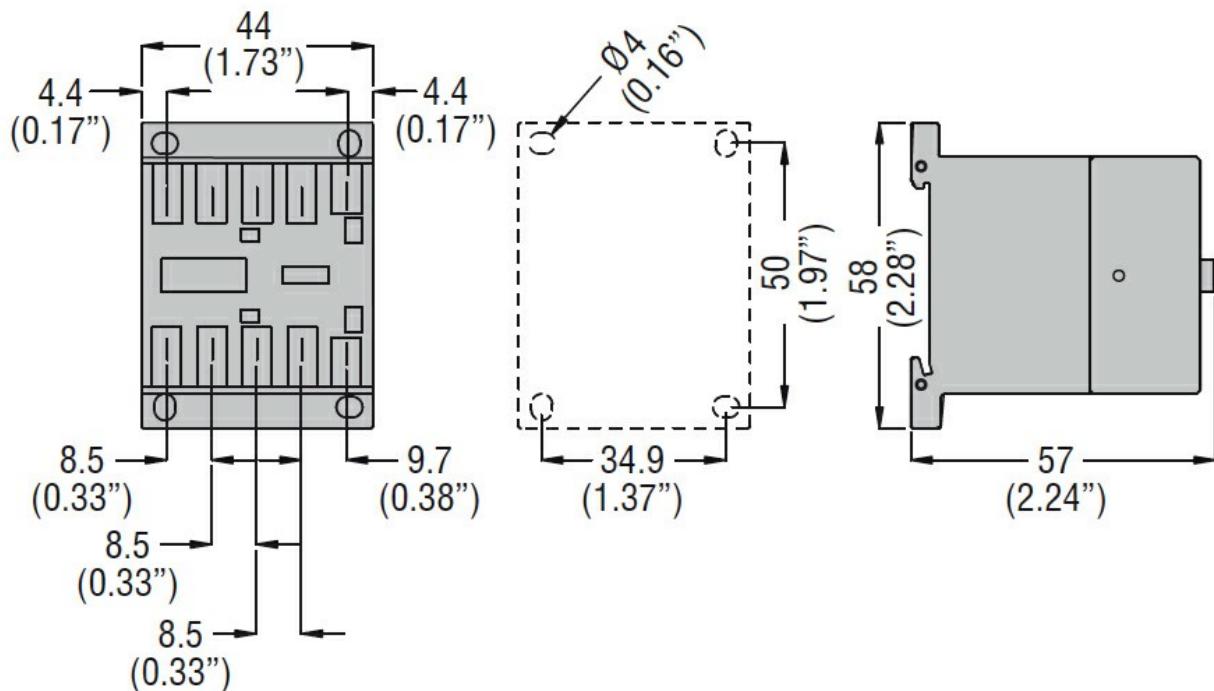
m 3000

Resistance & Protection

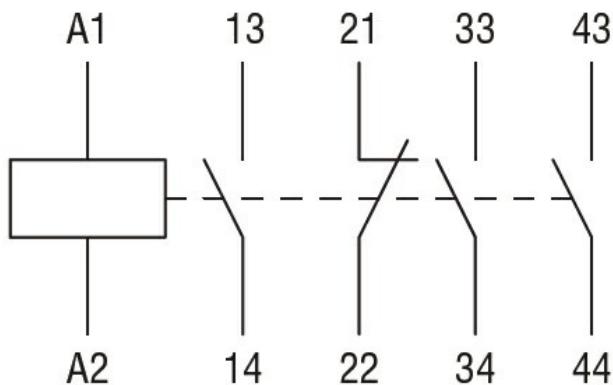
Pollution degree

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