



Product designation	Auxiliary contactor BGF00		
Product type designation			
<b>Contact characteristics</b>			
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	
Operational current $Ie$	AC-1 ( $\leq 40^{\circ}\text{C}$ )		
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	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	
<b>Conductor section</b>			
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 wired		
<b>Mechanical features</b>			
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
<b>Auxiliary contact characteristics</b>			
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
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 609474-4-1	YES		
EMC compatibility	yes		
<b>AC coil operating</b>			
Rated AC voltage at 60Hz	V	220	
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	
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

General USE

Contactor	AC current	A	160
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

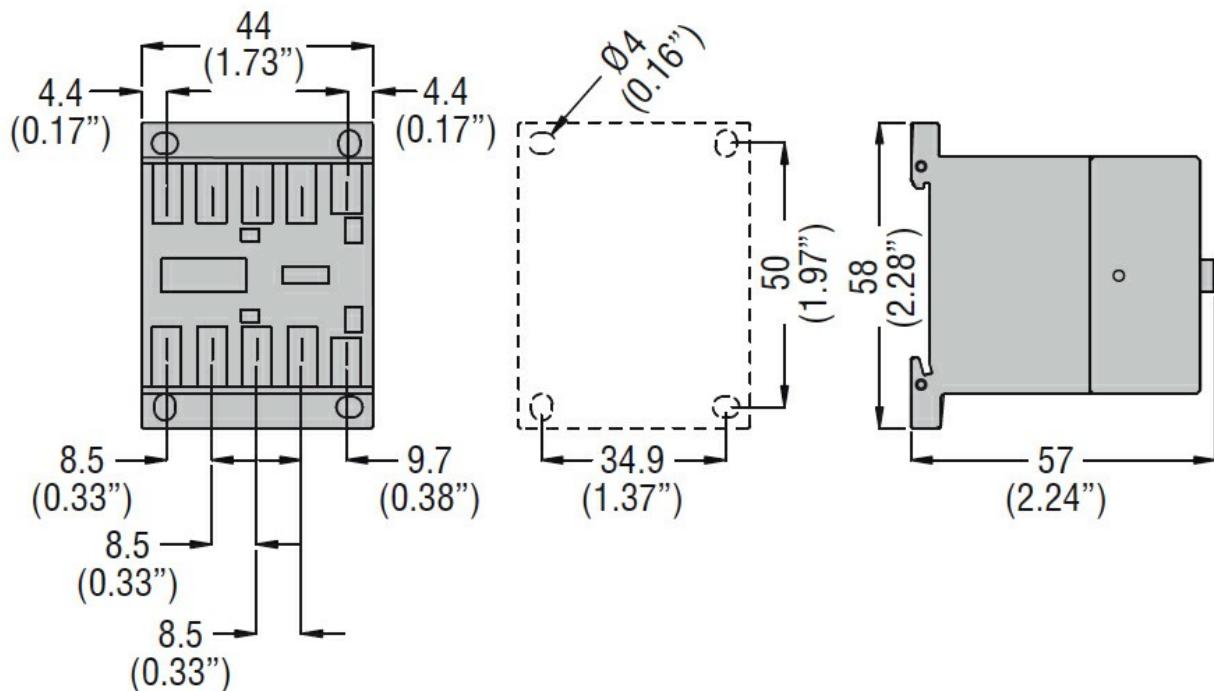
m 3000

Resistance & Protection

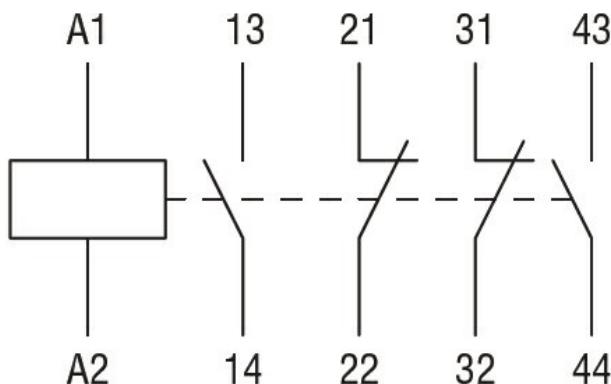
3

Pollution degree

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