



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
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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
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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
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**Mechanical features**

Operating position	normal allowable	Vertical plan ±30°
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Fixing		Screw / DIN rail 35mm
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Weight		g 180
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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 110

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
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**Max cycles frequency**

Mechanical operation	cycles/h	3600
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**Operating times**

Average time for  $U_s$  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
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**Ambient conditions**

Temperature

Operating temperature				
min	°C	-50		
max	°C	+70		

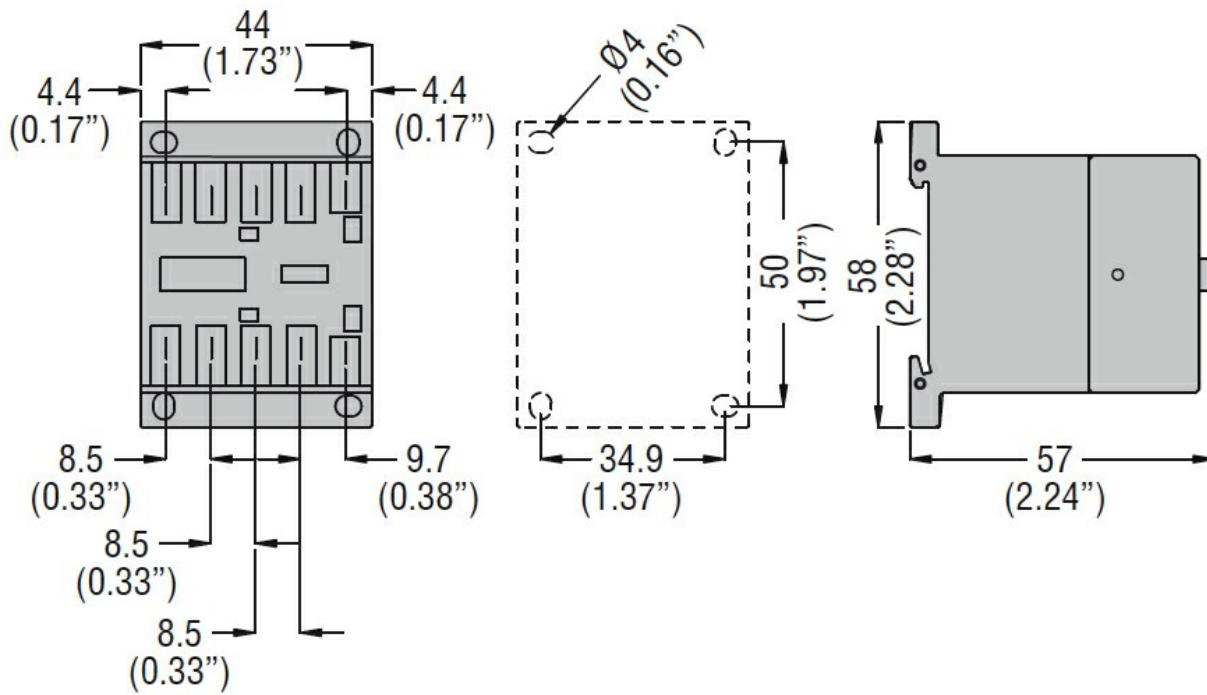
Storage temperature				
min	°C	-60		
max	°C	+80		

Max altitude	m	3000
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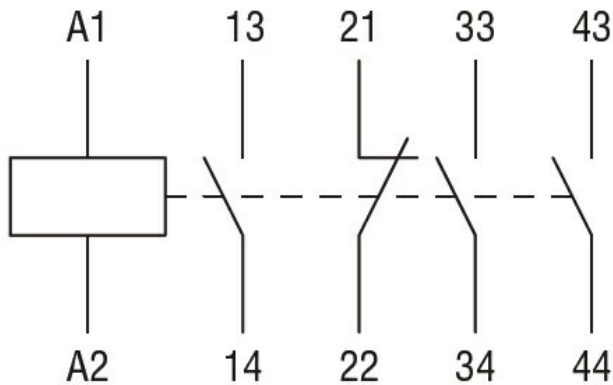
**Resistance & Protection**

Pollution degree	3
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**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