



Product designation				Auxiliary contactor
Product type designation				BGF00
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	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
Conductor section	AWG/Kcmil			
	max		12	
Flexible w/o lug conductor section	min	mm ²	0.75	
	max	mm ²	2.5	
Flexible c/w lug conductor section	min	mm ²	1.5	
	max	mm ²	2.5	
Flexible with insulated spade lug conductor section	min	mm ²	1.5	
	max	mm ²	2.5	
Power terminal protection according to IEC/EN 60529				IP20 when properly wired
Mechanical features				
Operating position	normal allowable		Vertical plan ±30°	
			Screw / DIN rail 35mm	
Fixing				Screw / DIN rail 35mm
Weight			g	180

Conductor section

AWG/kcmil conductor section

max 12

Auxiliary contact characteristics

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
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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		
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Mechanical operation	cycles/h	3600
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Operating times		
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Average time for Us control in AC		
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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		
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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		
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Contact rating of auxiliary contacts according to UL	A600 - Q600
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Ambient conditions		
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Temperature		
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Operating temperature	min	°C	-50
	max	°C	+70

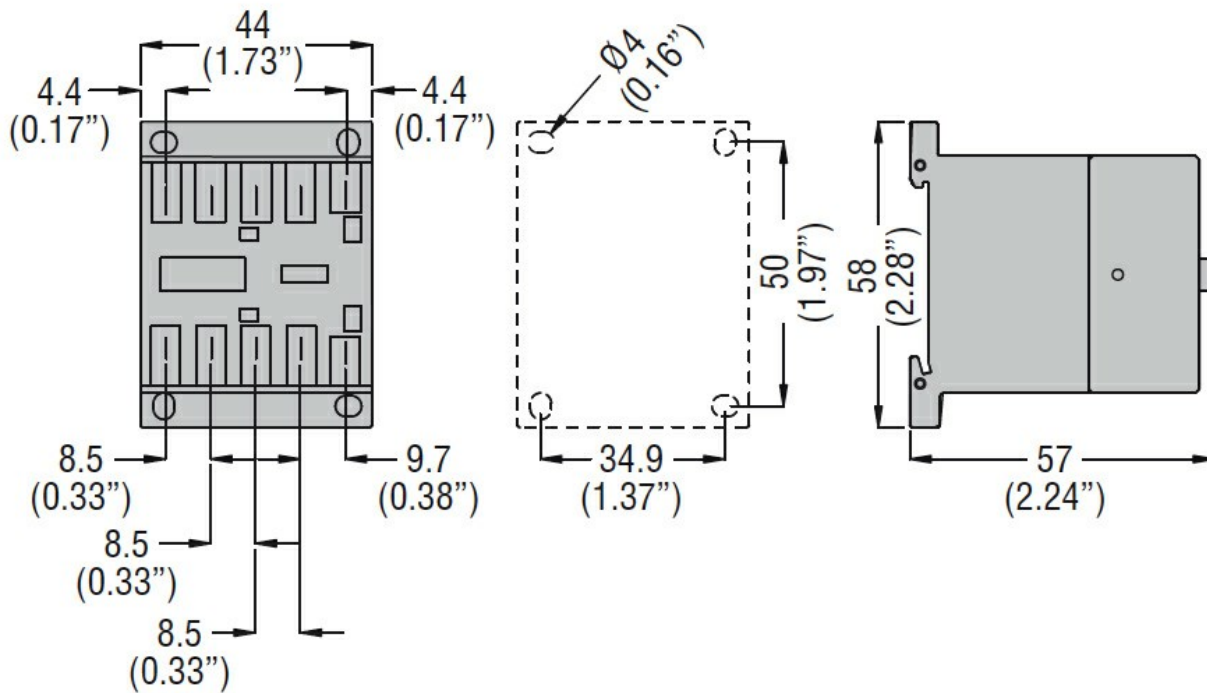
Storage temperature	min	°C	-60
	max	°C	+80

Max altitude	m	3000
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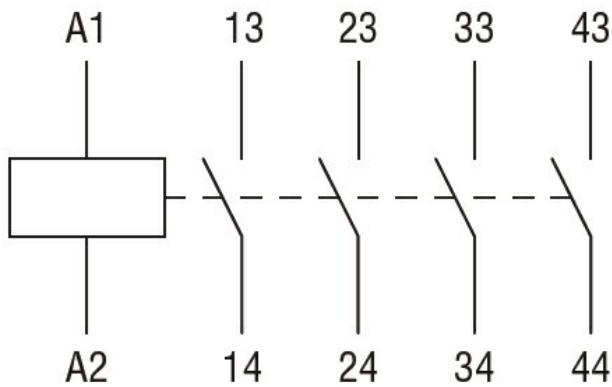
Resistance & Protection		
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Pollution degree		3
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Dimensions		
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Wiring diagrams



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