



Product designation	Auxiliary contactor		
Product type designation	BGF00		
Contact characteristics			
Number of poles	Nr.	4	
Rated insulation voltage Ui IEC/EN	V	690	
Rated impulse withstand voltage $Uimp$	kV	6	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	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 wired		
Mechanical features			
Operating position	normal		Vertical plan
	allowable		±30°
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 609474-4-1 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

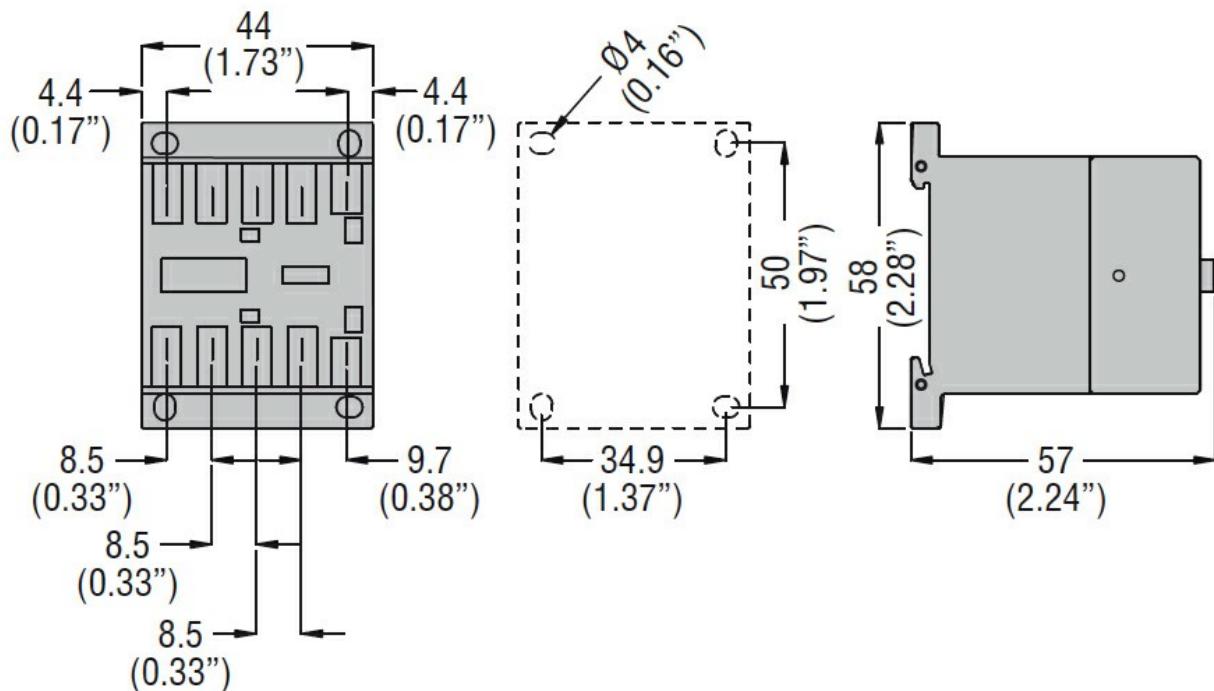
AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz	in-rush	VA	30
	holding	VA	4

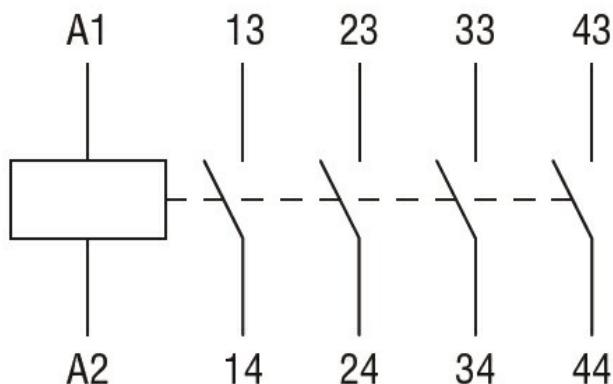
of 50/60Hz coil powered at 60Hz	in-rush	VA	25
	holding	VA	3

of 60Hz coil powered at 60Hz	in-rush	VA	30
	holding	VA	4

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz	W	0.95
Max cycles frequency		
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		
Contact rating of auxiliary contacts according to UL		A600 - Q600
Ambient conditions		
Temperature		
Operating temperature		
min	$^{\circ}\text{C}$	-50
max	$^{\circ}\text{C}$	+70
Storage temperature		
min	$^{\circ}\text{C}$	-60
max	$^{\circ}\text{C}$	+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