



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**

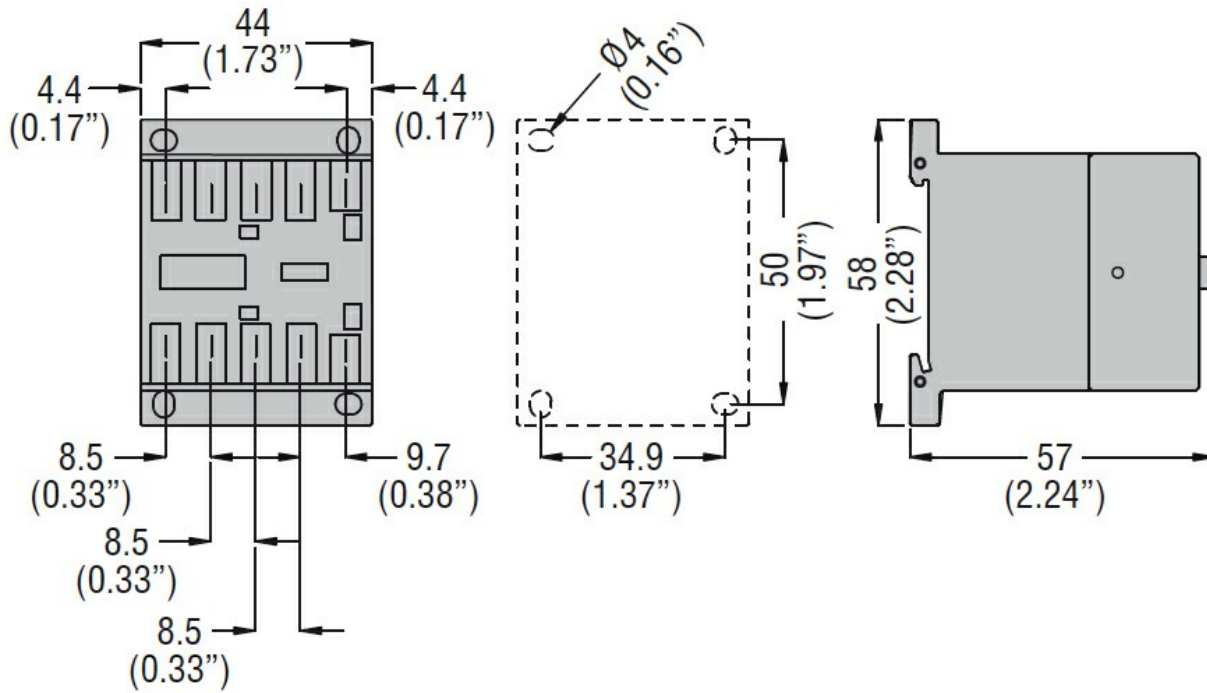
Operating position	normal allowable	Vertical plan ±30°
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Fixing	Screw / DIN rail 35mm
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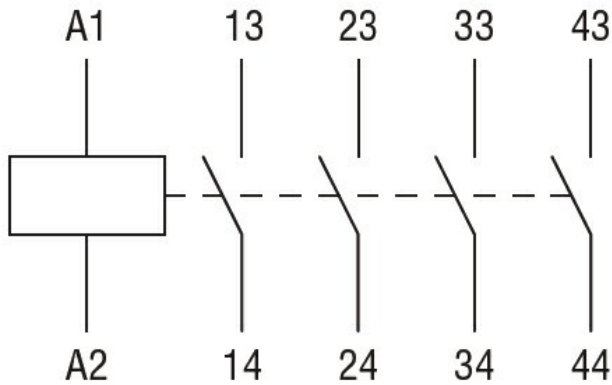
Weight	g	180
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Conductor section	AWG/kcmil conductor section		
	max	12	
<b>Auxiliary contact characteristics</b>			
Thermal current I <sub>th</sub>	A	10	
IEC/EN 60947-5-1 designation	A600 - Q600		
Operating current AC15	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	110V	A	2.9
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 60947-4-1	YES		
EMC compatibility	yes		
<b>AC coil operating</b>			
Rated AC voltage at 50/60Hz	V	400	
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
<b>Max cycles frequency</b>		
Mechanical operation	cycles/h	3600
<b>Operating times</b>		
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
<b>UL technical data</b>		
Contact rating of auxiliary contacts according to UL		A600 - Q600
<b>Ambient conditions</b>		
Temperature		
Operating temperature	min	°C -50
	max	°C +70
Storage temperature	min	°C -60
	max	°C +80
Max altitude	m	3000
<b>Resistance &amp; Protection</b>		
Pollution degree		3
<b>Dimensions</b>		



**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