



Product designation			Auxiliary contactor
Product type designation			BG00
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		А	10
Protection fuse			
	gG (IEC)	А	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			
5	min	mm²	0.75
	max	mm²	2.5
Flexible c/w lug conductor section	-		
0	min	mm²	1.5
	max	mm²	2.5
Flexible with insulated spade lug conductor section			
	min	mm²	1.5
	max	mm²	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	187
Conductor section		Э	



AWG/kcmil conductor section

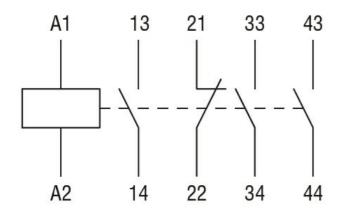
	max		12
Auxiliary contact characteristics			
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
Operating current DC12			
	110V	А	2.9
Operating current DC13			
	24V	А	2.9
	48V	А	1.4
	60V	А	1.2
	110V	А	0.6
	125V	А	0.55
	220V	А	0.3
	600V	А	0.1
Operations			
Mechanical life		cycles	2000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	mechanical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	230
AC operating voltage of 60Hz coil powered at 60Hz			
of 60Hz coil powered at 60Hz	min	%Us	75
of 60Hz coil powered at 60Hz	min max	%Us %Us	75 115
of 60Hz coil powered at 60Hz	max	%Us	115
of 60Hz coil powered at 60Hz pick-up		%Us %Us	115 20
of 60Hz coil powered at 60Hz pick-up drop-out	max	%Us	115
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max	%Us %Us	115 20
of 60Hz coil powered at 60Hz pick-up drop-out	max min max	%Us %Us %Us	115 20 55
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max in-rush	%Us %Us %Us VA	115 20 55 30
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	max min max	%Us %Us %Us	115 20 55
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max in-rush holding	%Us %Us %Us VA VA	115 20 55 30 4
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding in-rush	%Us %Us %Us VA VA VA	115 20 55 30 4 25
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max in-rush holding	%Us %Us %Us VA VA	115 20 55 30 4
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA	115 20 55 30 4 25 3
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA	115 20 55 30 4 25 3 30
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding	%Us %Us %Us VA VA VA VA VA	115 20 55 30 4 25 3 30 4
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA	115 20 55 30 4 25 3 30
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz Dissipation at holding =20°C 50Hz Max cycles frequency	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA VA VA VA VA VA VA VA	115 20 55 30 4 25 3 30 4 0.95
pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz Dissipation at holding =20°C 50Hz Max cycles frequency Mechanical operation	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA VA	115 20 55 30 4 25 3 30 4 0.95
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz Dissipation at holding =20°C 50Hz Max cycles frequency Mechanical operation Operating times	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA VA VA VA VA VA VA VA	115 20 55 30 4 25 3 30 4 0.95
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz Dissipation at holding =20°C 50Hz Max cycles frequency Mechanical operation Operating times Average time for Us control	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA VA VA VA VA VA VA VA	115 20 55 30 4 25 3 30 4 0.95
of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz of 60Hz coil powered at 60Hz Dissipation at holding =20°C 50Hz Max cycles frequency Mechanical operation	max min max in-rush holding in-rush holding in-rush	%Us %Us %Us VA VA VA VA VA VA VA VA VA VA VA	115 20 55 30 4 25 3 30 4 0.95

Lovato	
electric	•
ENERGY AND AUTOMATION	J

11BG0031A23060 CONTROL RELAY WITH AC COIL 60HZ, 230VAC, 3NO AND 1NC

			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max		18
		Closing NC			
		Clobing Ito	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		-	min	ms	18
			max		25
		Opening NO	max		
		Sponing 10	min	ms	2
			max	ms	3
		Closing NC	_		<u> </u>
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
General USE					
	Contactor				
	CUITACIUI				
	Contactor		AC current	А	10
Contact rating of auxili			AC current	Α	10 A600 - O600
	ary contacts according to	UL	AC current	A	10 A600 - Q600
Ambient conditions		UL	AC current	A	
	ary contacts according to		AC current	A	
Ambient conditions					A600 - Q600
Ambient conditions	ary contacts according to		min	°C	A600 - Q600 -50
Ambient conditions	ary contacts according to Operating temperature			°C	A600 - Q600
Ambient conditions	ary contacts according to		min	0° 0°	A600 - Q600 -50
Ambient conditions	ary contacts according to Operating temperature		min	°C	A600 - Q600 -50
Ambient conditions	ary contacts according to Operating temperature		min max	°C °C °C	A600 - Q600 -50 +70
Ambient conditions	ary contacts according to Operating temperature		min max min	°C °C °C	A600 - Q600 -50 +70 -60 +80
Ambient conditions Temperature Max altitude	ary contacts according to Operating temperature Storage temperature		min max min	2° 2° 2° 2°	A600 - Q600 -50 +70 -60
Ambient conditions Temperature Max altitude Resistance & Protecti	ary contacts according to Operating temperature Storage temperature		min max min	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree	ary contacts according to Operating temperature Storage temperature		min max min	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	ary contacts according to Operating temperature Storage temperature		min max min max	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	ary contacts according to Operating temperature Storage temperature		min max min max	°C °C °C °C m	A600 - Q600 -50 +70 -60 +80 3000
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	m 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions $4.4 + (1.73^{**}) + (0.17^{**}) + (0.17^{**}) + (0.17^{**}) + (0.38^{**}) + (0.3$	on		min max min max min max (1.73°)	m 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	A600 - Q600 -50 +70 -60 +80 3000 3 RE9
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions $4.4 + (1.73^{**}) + (0.17^{**}) + (0.17^{**}) + (0.17^{**}) + (0.38^{**}) + (0.3$	on		min max min max min max min max	m 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	A600 - Q600 -50 +70 -60 +80 3000 3
Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max min max (1.73°)	m 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	A600 - Q600 -50 +70 -60 +80 3000 3 RE9





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		
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC000196 - Contactor relay