



Product designation				Auxiliary
Product type designat	ion			contactor BG00
Contact characteristic				2000
Number of poles			Nr.	4
Rated insulation voltage	ae Ui IEC/EN		V	690
Rated impulse withsta			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 t	erminals	<u> </u>		
5 5 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	lbin	9
Tightening torque for a	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	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		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
				properly wired
Mechanical features				
Operating position				Vertical
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	176



Conductor section

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	A	0.6
	125V	A	0.55
	220V	A	0.3
	600V	A	0.1
Operations			0000000
Mechanical life		cycles	2000000
Safety related data Performance level B10d according to EN/ISO 13489-1			
Performance level Brod according to EN/ISO 15469-1	mechanical load	ovelee	2000000
Mirror contats according to IEC/EN 609474-4-1	mechanicarioad	cycles	YES
EMC compatibility			
AC coil operating			yes
Rated AC voltage at 60Hz		V	460
Rated AC voltage at 60Hz		V	460
AC operating voltage		V	460
AC operating voltage of 60Hz coil powered at 60Hz		V	460
AC operating voltage	min		
AC operating voltage of 60Hz coil powered at 60Hz	min max	%Us	75
AC operating voltage of 60Hz coil powered at 60Hz pick-up	min max		
AC operating voltage of 60Hz coil powered at 60Hz	max	%Us %Us	75 115
AC operating voltage of 60Hz coil powered at 60Hz pick-up		%Us	75
AC operating voltage of 60Hz coil powered at 60Hz pick-up	max	%Us %Us %Us	75 115 20
AC operating voltage of 60Hz coil powered at 60Hz pick-up drop-out	max	%Us %Us %Us	75 115 20
AC operating voltage of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max	%Us %Us %Us	75 115 20
AC operating voltage of 60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max	%Us %Us %Us %Us	75 115 20 55
AC operating voltage 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 %Us VA	75 115 20 55 30
AC operating voltage 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 %Us VA VA VA	75 115 20 55 30 4 25
AC operating voltage 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 %Us VA VA	75 115 20 55 30 4
AC operating voltage 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 %Us VA VA VA VA	75 115 20 55 30 4 25 3
AC operating voltage 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 %Us VA VA VA VA	75 115 20 55 30 4 25 3 30
AC operating voltage 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	%Us %Us %Us %Us VA VA VA VA VA	75 115 20 55 30 4 25 3 30 4
AC operating voltage 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 min max in-rush holding in-rush holding in-rush	%Us %Us %Us %Us VA VA VA VA	75 115 20 55 30 4 25 3 30
AC operating voltage 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 %Us VA VA VA VA VA VA VA VA VA	75 115 20 55 30 4 25 3 30 4 0.95
AC operating voltage 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 %Us VA VA VA VA VA	75 115 20 55 30 4 25 3 30 4 0.95
AC operating voltage 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 %Us VA VA VA VA VA VA VA VA VA	75 115 20 55 30 4 25 3 30 4 0.95
AC operating voltage 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 %Us VA VA VA VA VA VA VA VA VA	75 115 20 55 30 4 25 3 30 4 0.95

Lovato
electric
ENERGY AND AUTOMATION

		Closing NO				
			mir	n ms	12	
			max		21	
		Opening NO		1115	21	
		Opening NO	mir	n ms	9	
			max		18	
		Closing NC	max	k ms	10	
			mir		17	
			mir		17	
			max	( ms	26	
		Opening NC			7	
			mir		7	
			max	k ms	17	
	in DC					
		Closing NO				
			mir		18	
			max	( ms	25	
		Opening NO				
			mir		2	
			max	k ms	3	
		Closing NC				
			mir	n ms	3	
			max	k ms	5	
		Opening NC				
			mir	n ms	11	
			max	( ms	17	
UL technical data						
General USE						
	Contactor					
			AC curren	t A	10	
Contact rating of auxili	Contactor ary contacts according to	UL	AC curren	t A	10 A600 - Q600	
		UL	AC curren	t A		
Contact rating of auxili		UL	AC curren	t A		
Contact rating of auxili Ambient conditions			AC curren	t A		
Contact rating of auxili Ambient conditions	ary contacts according to		AC curren	n °C		
Contact rating of auxili Ambient conditions	ary contacts according to			n °C	A600 - Q600	
Contact rating of auxili Ambient conditions	ary contacts according to		mir	n °C	A600 - Q600 -50	
Contact rating of auxili Ambient conditions	ary contacts according to Operating temperature		mir	n °C k °C	A600 - Q600 -50	
Contact rating of auxili Ambient conditions	ary contacts according to Operating temperature		mir max	n °C < °C n °C	A600 - Q600 -50 +70	
Contact rating of auxili Ambient conditions	ary contacts according to Operating temperature		mir max mir	n °C k °C n °C	A600 - Q600 -50 +70 -60	
Contact rating of auxili Ambient conditions Temperature	ary contacts according to Operating temperature Storage temperature		mir max mir	n °C « °C n °C « °C	A600 - Q600 -50 +70 -60 +80	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti	ary contacts according to Operating temperature Storage temperature		mir max mir	n °C « °C n °C « °C	A600 - Q600 -50 +70 -60 +80 3000	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree	ary contacts according to Operating temperature Storage temperature		mir max mir	n °C « °C n °C « °C	A600 - Q600 -50 +70 -60 +80	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature          Storage temperature		mir max mir max	n °C « °C n °C « °C	A600 - Q600 -50 +70 -60 +80 3000	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on		mir max mir max	n °C °C n °C <u>c °C</u> m	A600 - Q600 -50 +70 -60 +80 3000 3	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	ary contacts according to Operating temperature Storage temperature		mir max mir max	n °C °C n °C <u>c °C</u> m	A600 - Q600 -50 +70 -60 +80 3000	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on		mir max mir max	n °C c °C n °C c °C m	A600 - Q600 -50 +70 -60 +80 3000 3	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on		mir max mir max	n °C c °C n °C c °C m	A600 - Q600 -50 +70 -60 +80 3000 3	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on		mir max mir max	n °C c °C n °C c °C m	A600 - Q600 -50 +70 -60 +80 3000 3	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		mir max mir max	n $CCCCCCCC$	A600 - Q600 -50 +70 -60 +80 3000 3	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature Storage temperature on		mir max mir max	n °C c °C n °C c °C m	A600 - Q600 -50 +70 -60 +80 3000 3	
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions $44^{44^{-1}}_{(0,17^{-1})} + 44^{-1}_{(0,17^{-1})} + $	on		mir max mir max	n $CCCCCCCC$	A600 - Q600 -50 +70 -60 +80 3000 3 RE9	6
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		mir max mir max	n $CCCCCCCC$	A600 - Q600 -50 +70 -60 +80 3000 3 RE9	.6
Contact rating of auxili Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions $44^{44^{-1}}_{(0,17^{-1})} + 44^{-1}_{(0,17^{-1})} + $	on		mir max mir max mir max mir max	n $CCCCCCCC$	A600 - Q600 -50 +70 -60 +80 3000 3	.6

11BG0040A46060 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



## 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		
		EC000196 -

**ETIM 8.0** 

EC000196 -Contactor relay