



Product type designation         Contact characteristics         Number of poles         Rated insulation voltage Ui IEC/EN         Rated impulse withstand voltage Uimp         Operational frequency         IEC Conventional free air thermal current Ith         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable         Conductor section		Nr.	contactor BG00
Contact characteristics         Number of poles         Rated insulation voltage Ui IEC/EN         Rated impulse withstand voltage Uimp         Operational frequency         IEC Conventional free air thermal current Ith         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable		Nr.	2000
Number of poles         Rated insulation voltage Ui IEC/EN         Rated impulse withstand voltage Uimp         Operational frequency         IEC Conventional free air thermal current Ith         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable		Nr.	
Rated insulation voltage Ui IEC/EN         Rated impulse withstand voltage Uimp         Operational frequency         IEC Conventional free air thermal current Ith         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable			4
Rated impulse withstand voltage Uimp         Operational frequency         IEC Conventional free air thermal current lth         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable		V	690
Operational frequency         IEC Conventional free air thermal current lth         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable		kV	6
IEC Conventional free air thermal current Ith         Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable			
Protection fuse Tightening torque for terminals Tightening torque for coil terminal Max number of wires simultaneously connectable	min	Hz	25
Protection fuse         Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable	max	Hz	400
Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable		Α	10
Tightening torque for terminals         Tightening torque for coil terminal         Max number of wires simultaneously connectable			
Tightening torque for coil terminal           Max number of wires simultaneously connectable	gG (IEC)	А	16
Tightening torque for coil terminal           Max number of wires simultaneously connectable	<u> </u>		
Max number of wires simultaneously connectable	min	Nm	0.8
Max number of wires simultaneously connectable	max	Nm	1
Max number of wires simultaneously connectable	min	Ibin	9
Max number of wires simultaneously connectable	max	Ibin	9
Max number of wires simultaneously connectable			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
· · · · · · · · · · · · · · · · · · ·		Nr.	2
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
, i i i i i i i i i i i i i i i i i i i	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 wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight			-
Conductor section		g	186

11BG0022A23060 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



AWG/kcmil conductor section

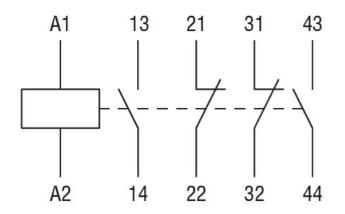
	max		12
Auxiliary contact characteristics			
Thermal current Ith		А	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
Operating current DC12			
	110V	А	2.9
Operating current DC13			
	24V	А	2.9
	48V	А	1.4
	60V	А	1.2
	110V	А	0.6
	125V	А	0.55
	220V	А	0.3
	600V	А	0.1
Operations			
Mechanical life		cycles	20000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz		V	230
Rated AC voltage at 60Hz           AC operating voltage		V	230
		V	230
AC operating voltage		V	230
AC operating voltage of 60Hz coil powered at 60Hz	min	V %Us	230 75
AC operating voltage of 60Hz coil powered at 60Hz	min max		
AC operating voltage of 60Hz coil powered at 60Hz		%Us	75
AC operating voltage of 60Hz coil powered at 60Hz pick-up		%Us	75
AC operating voltage of 60Hz coil powered at 60Hz pick-up drop-out	max	%Us %Us	75 115
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 of 50/60Hz coil powered at 50Hz	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	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	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	%Us %Us %Us %Us 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	%Us %Us %Us %Us 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 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	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
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

Lovato	
electric	•
ENERGY AND AUTOMATION	J

**11BG0022A23060** CONTROL RELAY WITH AC COIL 60HZ, 230VAC, 2NO AND 2NC

			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max		26
			Шал	1115	20
		Opening NC			7
			min		7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max		25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max		17
UL technical data				_	
General USE					
	O susta stan				
	Contactor		10	•	10
			AC current	A	10
	ary contacts according to	UL	AC current	А	10 A600 - Q600
Contact rating of auxilia Ambient conditions		UL	AC current	<u>A</u>	
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 max	0° 0°	A600 - Q600 -50 +70
Ambient conditions	ary contacts according to Operating temperature		min max min	°C °C °C	A600 - Q600 -50 +70 -60
Ambient conditions Temperature	ary contacts according to Operating temperature		min max	°C °C °C	A600 - Q600 -50 +70 -60 +80
Ambient conditions	ary contacts according to Operating temperature		min max min	°C °C °C	A600 - Q600 -50 +70 -60
Ambient conditions Temperature	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 & Protectio	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 & Protection 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 & Protection 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 & Protection Pollution degree	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 & Protection Pollution degree Dimensions	Operating temperature Storage temperature		min max min max	m 2 <sup>28<sup>3</sup></sup> 2 <sup>3</sup> 3 <sup>3</sup>	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") + (0.17") + (0.17") + (0.17") + (0.13	ary contacts according to Operating temperature Storage temperature		min max min max min max	°C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3 57 -24") RF9
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions 44 + (1.73") + (0.17") (0.17") + (0.17") + (0.17") (0.33") + (0.38")	Operating temperature Storage temperature		min max min max min max min max	m 2 <sup>28<sup>3</sup></sup> 2 <sup>3</sup> 3 <sup>3</sup>	A600 - Q600 -50 +70 -60 +80 3000 3 57 -24") RF9
Ambient conditions Temperature Max altitude Resistance & Protection Pollution degree Dimensions	Operating temperature Storage temperature		min max min max min max	m 2 <sup>28<sup>3</sup></sup> 2 <sup>3</sup> 3 <sup>3</sup>	A600 - Q600 -50 +70 -60 +80 3000 3





## 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