



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	Ibin	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				Vortical alar
		normal		Vertical plan ±30°
		allowable		±30 <sup>°</sup> Screw / DIN rail
Fixing				35mm
Weight			0	187
vvelgilt			g	107



Conductor section

AWG/kcmil conductor section

Avvo/kemii 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	A	2.9
Operating current DC13			
	24V	A	2.9
	48V	A	1.4
	60V	A	1.2
	110V	A	0.6
	125V	A	0.55
	220V 600V	A	0.3
Onerationa	6000	A	0.1
Operations Mechanical life		cycles	20000000
Safety related data		cycles	20000000
Performance level B10d according to EN/ISO 13489-1			
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1	mechanicarioad	Cycles	YES
EMC compatibility			yes
AC coil operating			yes
		V	575
Rated AC voltage at 60Hz		V	575
Rated AC voltage at 60Hz AC operating voltage		V	575
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz		V	575
Rated AC voltage at 60Hz AC operating voltage	min	V %Us	75
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz	min max		
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz		%Us	75
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up		%Us	75
Rated AC voltage at 60Hz   AC operating voltage   of 60Hz coil powered at 60Hz   pick-up   drop-out	max	%Us %Us	75 115
Rated AC voltage at 60Hz AC operating voltage of 60Hz coil powered at 60Hz pick-up	max	%Us %Us %Us	75 115 20
Rated AC voltage at 60Hz   AC operating voltage   of 60Hz coil powered at 60Hz   pick-up   drop-out	max	%Us %Us %Us %Us	75 115 20 55
Rated AC voltage at 60Hz   AC operating voltage   of 60Hz coil powered at 60Hz   pick-up   drop-out	max min max in-rush	%Us %Us %Us %Us VA	75 115 20 55 30
Rated AC voltage at 60Hz   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
Rated AC voltage at 60Hz   AC operating voltage   of 60Hz coil powered at 60Hz   pick-up   drop-out	max min max in-rush holding	%Us %Us %Us %Us VA VA	75 115 20 55 30 4
Rated AC voltage at 60Hz   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
Rated AC voltage at 60Hz   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
Rated AC voltage at 60Hz   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	75 115 20 55 30 4 25 3
Rated AC voltage at 60Hz   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
Rated AC voltage at 60Hz   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 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 VA	75 115 20 55 30 4 25 3 30 4
Rated AC voltage at 60Hz   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   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
Rated AC voltage at 60Hz   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 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 VA VA VA VA VA VA	75 115 20 55 30 4 25 3 30 4 0.95
Rated AC voltage at 60Hz   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 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	75 115 20 55 30 4 25 3 30 4 0.95
Rated AC voltage at 60Hz   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 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 VA	75 115 20 55 30 4 25 3 30 4 0.95
Rated AC voltage at 60Hz   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 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 VA	75 115 20 55 30 4 25 3 30 4 0.95

Lovato
electric
ENERGY AND AUTOMATION

		Closing NO			
			min	ms	12
					21
			max	ms	21
		Opening NO			0
			min		9
			max	ms	18
		Closing NC			. –
			min		17
		- · · · ·	max	ms	26
		Opening NC			_
			min		7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
		0	min	ms	3
			max		5
		Opening NC			
		epeiligite	min	ms	11
			max		17
UL technical data					
General USE					
General USE	Contactor				
General USE	Contactor		AC current	Δ	10
		. 1.11	AC current	A	10
Contact rating of auxil	Contactor	UL	AC current	A	10 A600 - Q600
Contact rating of auxil Ambient conditions		UL	AC current	A	
Contact rating of auxil	iary contacts according to		AC current	A	
Contact rating of auxil Ambient conditions					A600 - Q600
Contact rating of auxil Ambient conditions	iary contacts according to		min	°C	A600 - Q600 -50
Contact rating of auxil Ambient conditions	iary contacts according to Operating temperature			°C	A600 - Q600
Contact rating of auxil Ambient conditions	iary contacts according to		min max	℃ ℃	A600 - Q600 -50 +70
Contact rating of auxil Ambient conditions	iary contacts according to Operating temperature		min	0° 0° 0°	A600 - Q600 -50 +70 -60
Contact rating of auxil Ambient conditions Temperature	iary contacts according to Operating temperature		min max	0° 0° 0°	A600 - Q600 -50 +70 -60 +80
Contact rating of auxil Ambient conditions Temperature Max altitude	iary contacts according to Operating temperature Storage temperature		min max min	0° 0° 0°	A600 - Q600 -50 +70 -60
Contact rating of auxil Ambient conditions Temperature	iary contacts according to Operating temperature Storage temperature		min max min	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti	iary contacts according to Operating temperature Storage temperature		min max min	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree	iary contacts according to Operating temperature Storage temperature		min max min	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80 3000
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	2° 2° 2° 2°	A600 - Q600 -50 +70 -60 +80 3000
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature    Storage temperature   on		min max min	°C °C °C °C m	A600 - Q600 -50 +70 -60 +80 3000
Contact rating of auxil 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
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	°C °C °C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	Operating temperature    Storage temperature   on		min max min max	°C °C °C m	A600 - Q600 -50 +70 -60 +80 3000 3
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	<sup>58</sup> <sup>228</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> →	A600 - Q600 -50 +70 -60 +80 3000 3
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	2° 2° 3° 3° m	A600 - Q600 -50 +70 -60 +80 3000 3
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	<sup>58</sup> <sup>228</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> ⊃ <sup>2</sup> →	A600 - Q600 -50 +70 -60 +80 3000 3
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max min max min max	2° 2° 3° 3° m	A600 - Q600 -50 +70 -60 +80 3000 3 57 RE9
Contact rating of auxil Ambient conditions Temperature Max altitude Resistance & Protecti Pollution degree Dimensions	on		min max min max	2° 2° 3° 3° m	A600 - Q600 -50 +70 -60 +80 3000 3

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		
		EC000196 -

ETIM 8.0

EC000196 -Contactor relay