





Product designation				Auxiliary
·				contactor
Product type designat				BGF00
Contact characteristics				
Number of poles			Nr.	4
Rated insulation voltag	ge Ui IEC/EN		V	690
Rated impulse withsta	nd voltage Uimp		kV	6
Operational frequency	,			
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	10
Short-time allowable of	current for 10s (IEC/EN60947-1)		Α	0
Protection fuse				
		gG (IEC)	Α	16
Tightening torque for t	erminals			
0 0 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Tightening torque for o	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	Ibin	9
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	/ W S/Norm	max		12
	Flexible w/o lug conductor section	тах		
	r lexible w/o lag corradetor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max	111111	2.0
	r lexible 6/w rag corradetor section	min	mm²	1.5
		max	mm ²	2.5
	Flexible with insulated spade lug conductor section	Παλ	111111	
	i lexible with insulated space lag conductor section	min	mm²	1.5
		max	mm ²	2.5
-		max	111111	IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				propony whou
Operating position			_	
a poracing poortion		normal		Vertical plan
		allowable		±30°
-		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	182
			9	





CONTROL RELAY WITH AC COIL 50/60HZ, 230VAC, 2NO AND 2NC, FASTON TERMINALS

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 EMC compatibility AC coil operating Rated AC voltage at 50/60Hz V 230	Conductor section				
Auditary contact characteristics EC/EN 60947-5-1 designation		AWG/kcmil conductor section			
Thermal current Ith	A 11		max		12
EC/EN 60947-5-1 designation		acteristics		^	4.0
Departing current AC15 230V A 3 400V A 1.9 500V A 1.4		cianation		A	
A					A600 - Q600
March Marc	Operating current AC	15	230\/	۸	3
S00V A 1.4					
Operating current DC12					
110V	Operating current DC	12	0001	,,	
Compacting current DC13	operating earrorn be		110V	Α	2.9
24V	Operating current DC	13			
ABV A 1.4	3		24V	Α	2.9
125V					
Coperations			60V	Α	1.1
Coperations					
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 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 mechanical load cycles 200 AC coll poreating Wiss according to IEC/EN 609474-4-1 TYES AC coperating wiss according to IEC/EN 609474-4-1 <			220V	Α	0.1
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 50/60Hz y 230 AC operating voltage min %Us 75 x y 230 AC operating voltage at 50/60Hz coil powered at 50Hz min %Us 75 max %Us 20 x y y 115 x y y y 80 x y 80 x y 80 x y 80 x y x 10 x 20 x x x 20			60 ₀ V	Α	0.6
Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000	Operations				
Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 20000000	Mechanical life			cycles	20000000
Mirror contats according to IEC/EN 609474-4-1					
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility AC coil operating Rated AC voltage at 50/60Hz 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 115 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 3	Performance level B1	0d according to EN/ISO 13489-1			
EMC coil operating Rated AC voltage at 50/60Hz			mechanical load	cycles	
Rated AC voltage at 50/60Hz V 230		ing to IEC/EN 609474-4-1			
Rated AC voltage at 50/60Hz V 230					yes
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 80 max %Us 115 drop-out min %Us 20 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 3					
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 80 max %Us 115 drop-out min %Us 80 max %Us 115 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 3		:n/enu-		\/	220
Pick-up		50/60Hz		V	230
Min %Us 75 max %Us 115				V	230
Max Wus 115 Min Wus 20 Max Wus 55 Min Wus 55 Min Wus 55 Min Min Wus 55 Min Min Wus 55 Min Min Wus 80 Min Wus 115 Min Wus 115 Min Wus 115 Min Wus 20 Min Wus 55 Min Min Wus Min Min Wus 55 Min		of 50/60Hz coil powered at 50Hz		V	230
Min WUS 20 max WUS 55		of 50/60Hz coil powered at 50Hz	min		
min wus 20 max wus 55		of 50/60Hz coil powered at 50Hz		%Us	75
max %Us 55		of 50/60Hz coil powered at 50Hz pick-up		%Us	75
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 3		of 50/60Hz coil powered at 50Hz pick-up	max	%Us %Us	75 115
Pick-up min %Us 80 max %Us 115 Morp-out min %Us 20 max %Us 55 Moreover Morp-out min %Us 20 max %Us 55 Moreover Morp-out min %Us 55 Morp-out		of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	75 115 20
Min %Us 80 max %Us 115 115		of 50/60Hz coil powered at 50Hz pick-up drop-out	max min	%Us %Us %Us	75 115 20
Min Mus 20 max Mus 55		of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	75 115 20
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		of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max	%Us %Us %Us %Us	75 115 20 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		of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	75 115 20 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		of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	75 115 20 55
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 3		of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	75 115 20 55 80 115
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	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us	75 115 20 55 80 115
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	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min	%Us %Us %Us %Us %Us	75 115 20 55 80 115
of 50/60Hz coil powered at 60Hz in-rush VA 25 holding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55
in-rush VA 25 holding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55
holding VA 3 of 60Hz coil powered at 60Hz in-rush VA 30	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max in-rush	%Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55
of 60Hz coil powered at 60Hz in-rush VA 30	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55
in-rush VA 30	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us VA VA	75 115 20 55 80 115 20 55 30 4
	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us VA VA	75 115 20 55 80 115 20 55 30 4
holding VA 4	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us VA VA	75 115 20 55 80 115 20 55 30 4
	AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out umption at 20°C of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 60Hz	max min max min max min max in-rush holding in-rush holding	%Us %Us %Us %Us %Us %Us %Us VA VA	75 115 20 55 80 115 20 55 30 4 25 3



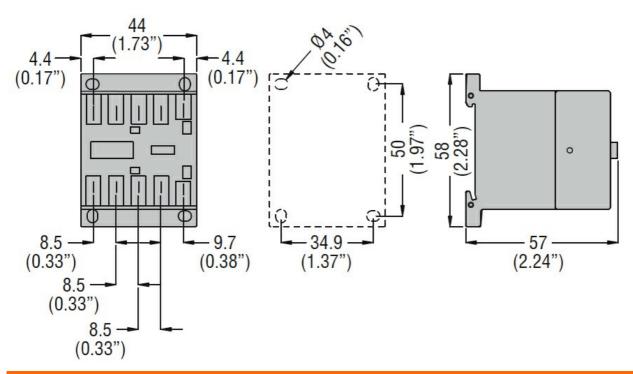


CONTROL RELAY WITH AC COIL 50/60HZ, 230VAC, 2NO AND 2NC, FASTON TERMINALS

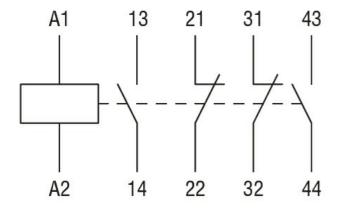
Max cycles frequency	Dissipation at holding s	20°C 50Hz			W	0.95
Mechanical operation		\$20 G 30HZ			VV	0.93
Closing NO					cvcles/h	3600
Average time for Us control in AC Closing NO						
in AC Closing NO min ms 12 max ms 21 Opening NO min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 7 max ms 26 Opening NC min ms 77 max ms 17 in DC Closing NO min ms 17 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 18 max ms 25 Opening NO min ms 3 Ray ms 3 Closing NC min ms 3 max ms 3 Closing NC min ms 11 max ms 5 Opening NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data Contact rating of auxiliary contacts according to UL Amblent conditions Temperature Operating temperature Operating temperature Max altitude min °C -50 max °C +70 Storage temperature min °C -60 max °C -60 max °C +80 Max altitude min °C -60 max °C -60		ntrol				
Max	· ·					
Opening NO			Closing NO			
Opening NO				min	ms	12
Closing NC				max	ms	21
Closing NC			Opening NO			
Closing NC				min	ms	
Opening NC				max	ms	18
Opening NC			Closing NC			
Opening NC						
Min			0 1 10	max	ms	26
Name			Opening NC			_
In DC						
Closing NO		. 50		max	ms	1/
Min		in DC	01 : 10			
Opening NO			Closing NO			40
Opening NO						
Min			On sain a NO	max	ms	25
Closing NC			Opening NO			0
Closing NC						
Min			Closing NC	ттах	ms	3
Opening NC Max ms 5 min ms 11 max ms 17 UL technical data Contact rating of auxiliary contacts according to UL A600 - Q600 Ambient conditions Temperature Min °C -50 max °C +70 Storage temperature Max altitude min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection			Closing NC	min	me	2
Opening NC						
min ms 11 max ms 17			Opening NC	IIIax	1115	5
Max altitude			Opening NC	min	me	11
Contact rating of auxiliary contacts according to UL						
Contact rating of auxiliary contacts according to UL A600 - Q600 Ambient conditions Temperature Min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude Resistance & Protection	UL technical data			max	1113	· ·
Ambient conditions Temperature Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection		ary contacts according to	UL			A600 - Q600
Operating temperature						
Operating temperature min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Total color Total color						
min min max °C -50 max -50 cc Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection m 3000	F	Operating temperature				
max °C +70 Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection a 3000		- p		min	°C	-50
Storage temperature min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Total Control						
min °C -60 max °C +80 Max altitude m 3000 Resistance & Protection Total Control Cont		Storage temperature				
Max altitude m 3000 Resistance & Protection		G		min	°C	-60
Max altitude m 3000 Resistance & Protection						
Resistance & Protection	Max altitude					
		n				
						3
Dimensions						



ENERGY AND AUTOMATION



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