



Product designation				Auxiliary contactor
Product type designat	ion			BG00
Contact characteristic				
Number of poles			Nr.	4
Rated insulation voltage	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		А	10
Protection fuse				
		gG (IEC)	А	16
Tightening torque for t	erminals			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
	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	· · ·		4 5
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property writed
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	179
			Э	



Conductor section

AWG/kcmil conductor section

		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	A	2.9
		48V	A	1.4
		60V	А	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
Oporationa		600V	A	0.1
Operations Mechanical life			ovelee	20000000
Safety related data			cycles	2000000
	0d according to EN/ISO 13489-1			
renomiance level bi	ou according to EN/ISO 15489-1	mechanical load	cycles	2000000
Mirror contate accordi	ng to IEC/EN 609474-4-1	THECHAINCAI IUAU	Cycles	YES
EMC compatibility	ng to iec/en 009474-4-1			
				yes
AC coll operating				
AC coil operating Rated AC voltage at 5	50/60Hz		V	110
Rated AC voltage at 5	i0/60Hz		V	110
			V	110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		V	110
Rated AC voltage at 5		min	V %Us	75
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min max		
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		%Us	75
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up		%Us	75
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	%Us %Us	75 115
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	%Us %Us %Us	75 115 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us %Us %Us	75 115 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max	%Us %Us %Us %Us	75 115 20 55 80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	75 115 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	75 115 20 55 80 115
Rated AC voltage at 5	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 min	%Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20
Rated AC voltage at 5 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	%Us %Us %Us %Us %Us	75 115 20 55 80 115
Rated AC voltage at 5	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	%Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20
Rated AC voltage at 5 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	%Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55
Rated AC voltage at 5 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	%Us %Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55 30
Rated AC voltage at 5 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	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55
Rated AC voltage at 5 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 holding	%Us %Us %Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55 30 4
Rated AC voltage at 5 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	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55 30 4 25
Rated AC voltage at 5 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	%Us %Us %Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55 30 4
Rated AC voltage at 5 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	max min max min max min max in-rush holding in-rush	%Us %Us %Us %Us %Us %Us %Us %Us %Us %Us	75 115 20 55 80 115 20 55 30 4 25



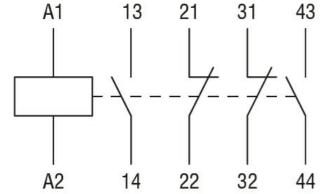
## 11BG0022A110 CONTROL RELAY WITH AC COIL 50/60HZ, 110VAC, 2NO AND 2NC

Average time for Us control in AC Closing NO Min ms 12 max ms 21 Opening NO Min ms 9 max ms 18 Closing NC Min ms 7 max ms 26 Opening NC Min ms 7 max ms 17 max ms 17 max ms 17 max ms 17 max ms 26 Opening NO Min ms 18 max ms 25 Opening NO Min ms 2 Min ms 3 max ms 25 Opening NO Min ms 3 Min ms 3 Min ms 3 Min ms 11 max ms 12 Min ms 3 Min ms 11 max ms 11 max ms 11 max ms 11 max ms 11 max ms 12 Min ms 11 max ms 11 max ms 12 Min ms 12				holding	VA	4
Mechanical operation         cycles/h         3600           Operating times	Dissipation at holding	ng ≤20°C 50Hz			W	0.95
Operating times           Average time for Us control in AC         Closing NO         min         ms         12           Copening NO         min         ms         9         max         ms         18           Closing NC         min         ms         17         max         ms         17           Opening NC         min         ms         7         max         ms         17           in DC         Closing NC         min         ms         17         max         ms         18           Opening NC         min         ms         17         max         ms         18           In DC         Closing NO         min         ms         18         max         ms         18           Opening NO         min         ms         18         max         ms         25           Opening NO         min         ms         3         10         10         10           Closing NC         max         ms         3         17         11         max         ms         17           Opening NC         min         ms         11         max         16         17           Opening NC         min	Max cycles frequen	су				
Average time for Us control in AC Closing NO Min ms 12 max ms 21 Opening NO Min ms 9 max ms 18 Closing NC Min ms 7 max ms 26 Opening NC Min ms 7 max ms 17 max ms 17 max ms 17 max ms 17 max ms 26 Opening NO Min ms 18 max ms 25 Opening NO Min ms 2 Min ms 3 max ms 25 Opening NO Min ms 3 Min ms 3 Min ms 3 Min ms 11 max ms 12 Min ms 3 Min ms 11 max ms 11 max ms 11 max ms 11 max ms 11 max ms 12 Min ms 11 max ms 11 max ms 12 Min ms 12		on			cycles/h	3600
in AC         Closing NO         min         ms         12           Opening NO         min         ms         9           max         ms         9           max         ms         9           max         ms         9           max         ms         9           Closing NC         min         ms         26           Opening NC         min         ms         7           in DC         Closing NO         min         ms         7           in DC         Closing NO         min         ms         18           Opening NO         min         ms         12         1           in DC         Closing NO         min         ms         25           Opening NO         min         ms         25           Opening NO         min         ms         3           Closing NC         min         ms         3           Opening NC         min         ms         3           Opening NC         min         ms         11           max         min         ms         12           Opening NC         min         ms         12	Operating times					
Image: Second	Average time for Us	s control				
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $		in AC				
Appending NO         min         ms         21           Opening NO         min         ms         9           max         ms         18           Closing NC         min         ms         17           max         ms         7         max         ms         26           Opening NC         min         ms         7         max         ms         17           in DC         Closing NO         min         ms         12         17           Opening NO         min         ms         25         17         18         16			Closing NO			
Arr opening NO         min         ms         9           max         ms         18           Closing NC         max         ms         17           max         ms         26           Opening NC         max         ms         7           max         ms         18           max         ms         25           Opening NO         min         ms         3           max         ms         5         3           Closing NC         max         ms         11           max         ms         17         17           Utechnical data         ms         13         11           General USE         Contactor         ACourrent         A         10 <td< td=""><td></td><td></td><td></td><td>min</td><td>ms</td><td></td></td<>				min	ms	
$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$				max	ms	21
Image: Product of the second secon			Opening NO			
Closing NC         min         ms         17           max         ms         7           max         ms         17           max         ms         18           max         ms         25           Opening NO         max         ms         25           Opening NO         max         ms         3           Closing NC         max         ms         3           Max         ms         11         max         ms         11           max         ms         11         max         ms         11           Max         ms         12         max         ms         11           Max         ms         10         max         ms         11           Max         ms         10         max         ms         12           Contactor         A         10         max         max         12           Contact rating of auxi				min	ms	
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $				max	ms	18
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $			Closing NC			
Opening NC         min         ms         7           in DC         Closing NO         min         ms         17           in DC         Closing NO         min         ms         25           Opening NO         min         ms         25           Opening NO         min         ms         21           Max         ms         25         3           Opening NO         min         ms         21           Max         ms         25         3           Opening NO         min         ms         21           Max         ms         3         3           Closing NC         min         ms         3           Max         ms         11         3           Max         ms         17         17           Ut technical data         ms         11         17           General USE         Contactor         A 600 - Q600         Anbient conditions         4600 - Q600           Temperature         Min         °C         50         17           Temperature         min         °C         50         17           Storage temperature         min         °C <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
$\begin{tabular}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $				max	ms	26
max         ms         17           in DC         Closing NO         min         ms         18           max         ms         25         max         ms         25           Opening NO         min         ms         2         max         ms         3           Closing NC         min         ms         3         max         ms         3           Opening NC         min         ms         3         max         ms         11           Max         ms         11         max         ms         11         max         ms         17           UL technical data         min         ms         11         max         ms         17           UL technical data         min         ms         11         max         ms         17           UL technical data         min         ms         10         max         17           UL technical data         min         ms         10         max         10           Contactor         AC current         A         10         0         0           Contactor         min         min         °C         -50         -50         -50 <td< td=""><td></td><td></td><td>Opening NC</td><td></td><td></td><td></td></td<>			Opening NC			
in DC Closing NO min ms 18 max ms 25 Opening NO min ms 2 max ms 3 Closing NC min ms 3 max ms 5 Closing NC min ms 3 max ms 5 Opening NC min ms 11 max ms 5 Opening NC min ms 11 max ms 17 Ut technical data General USE Contactor Contacts according to UL Accurrent A 10 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature Operating temperature Max atitude min °C -50 max °C +70 Storage temperature min °C -60 max °C +80 Max atitude Resistance & Protection Resis						
Closing NO         min         ms         18           max         ms         25           Opening NO         min         ms         2           max         ms         3           Closing NC         min         ms         3           Closing NC         min         ms         3           Opening NC         min         ms         3           Opening NC         min         ms         1           Max         ms         1         1         1           Opening NC         max         ms         1         1           Opening NC         max         ms         1         1           Ut technical data         max         ms         1         1           General USE         Contactor         A         10         0           Contact rating of auxiliary contacts according to UL         Ambient conditions         A600 - Q600         Ambient conditions           Temperature         Max         min         °C         -50           Max altitude         min         °C         -60         -70           Storage temperature         min         °C         -60         -70				max	ms	17
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $		in DC				
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $			Closing NO			
Opening NO         min         ms         2           max         ms         2           max         ms         3           Closing NC         min         ms         3           max         ms         5         0           Opening NC         min         ms         3           Max         ms         11         11           max         ms         17         11           UL technical data         ms         17         11           General USE         Contactor         AC current         A         10           Contactor         AC current         A         10         0           Contactors         Max         10         0         0           Ambient conditions         max         *C         -50         -50           Temperature         min         °C         -50         -50         -50           Temperature         min         °C         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50         -50				min	ms	
$\begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$				max	ms	25
Max       ms       3         Closing NC       min       ms       3         Max       ms       3       3         Opening NC       min       ms       11         Max       ms       17       17         UL technical data       ms       17         General USE       Contactor       ms       10         Contactor       AC current       A       10         Contactor rating of auxiliary contacts according to UL       A       400 - Q600         Ambient conditions       min       °C       -50         Temperature       Operating temperature       min       °C       -50         Max       °C       +70       -50       -70         Storage temperature       min       °C       -50         Max altitude       min       3000       -10         Resistance & Protection       min       3000			Opening NO			
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$				min	ms	
min     ms     3       Max     ms     5       Opening NC     min     ms     11       max     ms     17       UL technical data       General USE       Contactor     AC current     A     10       Contactor       AC current     A     10       Contactor       AC current     A     10       Contactor       Add current     A     10       Contactor       Add current     A     10       Contactor       Max altitude       Max altitude       min     °C     -50       max     °C     -50     max       Max altitude     m     3000       Resistance & Protection       Pollution degree				max	ms	3
$\begin{array}{c c c c c } & max & ms & 5 \\ & min & ms & 11 \\ & max & ms & 17 \\ \hline \\ \hline \\ \begin{tabular}{lllllllllllllllllllllllllllllllllll$			Closing NC			
Opening NC       min       ms       11         max       ms       17         UL technical data         General USE         Contactor       AC current       A       10         Contactor         AC current       A       10         Contactor         Anbient conditions       A600 - Q600         Ambient conditions       A600 - Q600         Ambient conditions       A600 - Q600         Ambient conditions       Femperature       Femperature         Operating temperature       min       °C       -50         Max altiude       min       °C       -60         Max altiude       m       3000         Resistance & Protection				min	ms	3
min       mix       m				max	ms	5
max       m			Opening NC			
UL technical data         General USE         Contactor         AC current       A         Contact rating of auxiliary contacts according to UL       A600 - Q600         Ambient conditions       A600 - Q600         Temperature       min       °C       -50         Max       °C       +70         Storage temperature       min       °C       -60         Max altitude       m       3000         Resistance & Protection       3       3				min	ms	
General USE       Contactor       AC current       A       10         Contact rating of auxiliary contacts according to UL       A600 - Q600         Ambient conditions       Temperature       V         Temperature       Operating temperature       V       -50         Max       °C       +70         Storage temperature       min       °C       -60         Max altitude       m       3000         Resistance & Protection       3       3				max	ms	17
Contactor       AC current       A       10         Contact rating of auxiliary contacts according to UL       A600 - Q600         Ambient conditions       -       -         Temperature       Operating temperature       - <ul> <li>Operating temperature</li> <li>min</li> <li>°C</li> <li>-50</li> <li>max</li> <li>°C</li> <li>+70</li> </ul> Storage temperature               min <li>°C</li> <li>+80</li> <li>max</li> <li>°C</li> <li>+80</li> Max altitude         m           Resistance & Protection						
AC current     A     10       Contact rating of auxiliary contacts according to UL     A600 - Q600       Ambient conditions         Temperature     Operating temperature <ul> <li>Operating temperature</li> <li>min</li> <li>°C</li> <li>-50</li> <li>max</li> <li>°C</li> <li>+70</li> </ul> Storage temperature     min     °C     -60	General USE					
Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature Operating temperature Min °C -50 max °C +70 Storage temperature Max altitude Max altitude Resistance & Protection Pollution degree 3		Contactor				
Ambient conditions         Temperature         Operating temperature         min       °C         max       °C         Storage temperature         min       °C         Storage temperature         min       °C         Max altitude       m         Resistance & Protection         Pollution degree       3				AC current	Α	10
Temperature       Operating temperature         min       °C       -50         max       °C       +70         Storage temperature       min       °C       -60         max       °C       +80         Max altitude       m       3000         Resistance & Protection         3			ding to UL			A600 - Q600
Operating temperature       min       °C       -50         max       °C       +70         Storage temperature       min       °C       -60         max       °C       +80         Max altitude       m       3000         Resistance & Protection         Pollution degree       3						
min       °C       -50         max       °C       +70         Storage temperature       min       °C       -60         max       °C       +80         Max altitude       m       3000         Resistance & Protection         Pollution degree       3	Temperature					
max       °C       +70         Storage temperature       min       °C       -60         max       °C       +80         Max altitude       m       3000         Resistance & Protection         Pollution degree       3		Operating tempe	rature			
Storage temperature       min       °C       -60         max       °C       +80         Max altitude       m       3000         Resistance & Protection         Pollution degree       3				min		-50
min°C-60max°C+80Max altitudem3000Resistance & ProtectionPollution degree3				max	°C	+70
max°C+80Max altitudem3000Resistance & ProtectionPollution degree3		Storage tempera	ture			
Max altitude m 3000 Resistance & Protection Pollution degree 3				min	°C	-60
Resistance & Protection         Pollution degree         3				max	°C	+80
Pollution degree 3	Max altitude				m	3000
Pollution degree 3	Resistance & Prote	ection				
	Pollution degree					3
	Dimensions					



CONTROL RELAY WITH AC COIL 50/60HZ, 110VAC, 2NO AND 2NC

4.4 0,6 44 0,0 \_\_\_\_\_57 \_\_\_\_ (2.24") 4.4— (0.17") \_\_\_\_ 57 \_\_\_\_ (2.24") ..... 58 (2.28") 58 (2.28") 320 -000 ..... 94.2 (3.71") 머머 - 34.9 - (1.37") 8.5 (0.33" 3.2 — (0.12") 9.7 (0.38") - 34.9 (1.37") RF...9 8.5 (0.33") -7.6 (0.30") - 89.2 -(3.51") 8.5 (0.33") — 44 — (1.73") Wiring diagrams



## 4141

Certifications and co	npliance	
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

Contactor relay