



Product type designation         BGP09           Contact characteristics				
Product type designation         BGP09           Contact characteristics         V           Number of poles         Nr.         4           Rated insulation voltage Ui IEC/EN         V         500           Rated insulation voltage Ui IEC/EN         V         6           Operational frequency         min         Hz         25           max         Hz         400         EC           IEC Conventional frequency         A         20           Operational current le         AC-1 (≤40°C)         A         20           Operational current le         AC-1 (≤40°C)         A         18           AC-1 (≤40°C)         A         18         A           AC-1 (≤40°C)         A         4         A           Rated operational power AC-1 (T≤40°C)         A         4         A           Rated operational power AC-1 (T≤40°C)         230V         KW         8           4000V         kW         14         500V         KW         8           400V         kW         14         500V         KW         14           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         Protection fuse         GG (IEC)         A         92	Product designation			Power contactor
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	-			BGP09
Rated insulation voltage Ui IEC/ENV500Rated impulse withstand voltage UimpkV6Operational frequencyminHz25maxHz400IEC Conventional free air thermal current lthA20Operational current leAC-1 (≤40°C)A20AC-1 (≤5°C)A18AC-1 (≤70°C)A15AC-3 (≤440V ≤55°C)A9AC-4 (400V)A4Rated operational power AC-1 (T≤40°C)230VkWRated operational power AC-1 (T≤40°C)230VkWShort-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20Making capacity (RMS value)A9210Breaking capacity at voltagemΩ1010Power dissipation per pole (average value)mΩ1010Power dissipation per pole (average value)minNm1Tightening torque for coil terminalsminNm1Tightening torque for coil terminalminNm0.8				
Rated insulation voltage Ui IEC/ENV500Rated impulse withstand voltage UimpkV6Operational frequencyminHz25maxHz400IEC Conventional free air thermal current lthA20Operational current leAC-1 (≤40°C)A20AC-1 (≤5°C)A18AC-1 (≤70°C)A15AC-3 (≤440V ≤55°C)A9AC-4 (400V)A4Rated operational power AC-1 (T≤40°C)230VkWRated operational power AC-1 (T≤40°C)230VkWShort-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20Making capacity (RMS value)A9210Breaking capacity at voltagemΩ1010Power dissipation per pole (average value)mΩ1010Power dissipation per pole (average value)minNm1Tightening torque for coil terminalsminNm1Tightening torque for coil terminalminNm0.8	Number of poles		Nr.	4
Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400           IEC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (s40°C)         A         20           AC-1 (s55°C)         A         18         AC-1 (s55°C)         A         15           AC-3 (s4400V s55°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-1 (T≤40°C)         230V         kW         8         4000V         kW         14           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         9         9         16           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         9         10         10           Making capacity (RMS value)         A         92         20         aM (IEC)         A         92           Breaking capacity at voltage         440V         A         72         20         10           Making capacity at voltage         MO         10         10         10         10           Power dissipation per pole (average value)				
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				
min         Hz         25           max         Hz         400           IEC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (\$40°C)         A         20           AC-1 (\$55°C)         A         18         AC-1 (\$55°C)         A         18           AC-1 (\$57°C)         A         15         AC-3 (\$440V \$55°C)         A         9           AC-3 (\$440V \$55°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-1 (T\$40°C)         230V         kW         8         400V         kW         14           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         Protection fuse         gG (IEC)         A         20           Making capacity (RMS value)         A         92         Breaking capacity at voltage         440V         A         72           Resistance per pole (average value)         m0         10         Power dissipation per pole (average value)         m0         10           Power dissipation per pole (average value)         m0         10         Power dissipation per pole (average value)         m0         10           Power dissipation per pole (average value)         m0				•
max         Hz         400           IEC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (\$40°C)         A         20           AC-1 (\$55°C)         A         18         AC-1 (\$55°C)         A         18           AC-1 (\$55°C)         A         15         AC-3 (\$4400 \$55°C)         A         9           AC-3 (\$4400 \$55°C)         A         9         AC-4 (400V)         A           Rated operational power AC-1 (T\$40°C)         230V         kW         8           400V         kW         14         500V         KW         14           500V         kW         16         5         5         5         5         5         7         2           Protection fuse         gG (IEC)         A         20         a         3         1           Making capacity (RMS value)         A         92         3         3         2         3           Breaking capacity (RMS value)         M         72         5         5         72         3         4         4         4         4         4         4         4         4         4         4         4         4	opolational moquency	min	Hz	25
IEC Conventional free air thermal current lth         A         20           Operational current le         AC-1 (≤40°C)         A         20           AC-1 (≤55°C)         A         18         AC-1 (≤55°C)         A         9           AC-3 (≤440V ≤55°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-1 (T≤40°C)         230V         kW         8         400V         kW         14           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         9         Protection fuse         gG (IEC)         A         20           Making capacity (RMS value)         A         92         Breaking capacity at voltage         440V         A         72           Resistance per pole (average value)         mΩ         10         Power dissipation per pole (average value)         mΩ         10           Power dissipation per pole (average value)         mΩ         10         Power dissipation per pole (average value)         mΩ         10           Power dissipation per pole (average value)         mΩ         10         Power dissipation per pole (average value)         mΩ         10           Power dissipation per pole (average value)         min         Nm         1.8         max         Nm				
Operational current le         AC-1 (≤40°C)         A         20           AC-1 (≤50°C)         A         18         AC-1 (≤50°C)         A         9           AC-3 (≤440V ≤5°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-1 (T≤40°C)         230V         kW         8         400V         kW         14           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         96         97           Protection fuse         gG (IEC)         A         20         add (IEC)         A         92           Breaking capacity (RMS value)         A         92         92         92         92           Breaking capacity at voltage         440V         A         72         500V         A         72           Resistance per pole (average value)         mΩ         10         90         10           Power dissipation per pole (average value)         Ith         W         4           AC-3         W         0.81         10           Tightening torque for terminals         min         Nm         1           min         Nm         1         min         99           Tightening torque for coil terminal <td>IFC Conventional free air thermal current Ith</td> <td>max</td> <td></td> <td></td>	IFC Conventional free air thermal current Ith	max		
AC-1 (≤40°C)         A         20           AC-1 (≤55°C)         A         18           AC-1 (≤55°C)         A         9           AC-3 (≤440V)         S55°C)         A         9           AC-4 (400V)         A         4           Rated operational power AC-1 (T≤40°C)         230V         kW         8           400V         kW         14         500V         kW         16           Short-time allowable current for 10s (IEC/EN60947-1)         A         96         9           Protection fuse         gG (IEC)         A         20           aM (IEC)         A         10         40V         A         92           Breaking capacity RMS value)         A         92         9         10           Power dissipation per pole (average value)         mΩ         10         0           Power dissipation per pole (average value)         mΩ         10         0           Power dissipation per pole (average value)         mΩ         10         0           Power dissipation per pole (average value)         mΩ         10         0           Power dissipation per pole (average value)         mΩ         10         0           Tightening torque for terminals			Α	20
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\Lambda C = 1 (< 10^{\circ}C)$	۸	20
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $		· · · · · · · · · · · · · · · · · · ·		
Rated operational power AC-1 (T≤40°C)230VkW8400VkW14500VkW16Short-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72200VA72500VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)Ith W 4 AC-3 W 0.81Tightening torque for terminalsminNm0.8 maxminIbin9 maxTightening torque for coil terminalminNm0.8Tightening torque for coil terminalmin< Nm				
230V         kW         8           400V         kW         14           500V         kW         16           Short-time allowable current for 10s (IEC/EN60947-1)         A         96           Protection fuse         gG (IEC)         A         20           aM (IEC)         A         10         A           Making capacity (RMS value)         A         92           Breaking capacity at voltage         440V         A         72           Resistance per pole (average value)         mΩ         10           Power dissipation per pole (average value)         mín         Nm           Ightening torque for terminals         min         Nm           min         Nm         0.8         max           min         bin         9         max           Ibin         9         max         1bin		AC-4 (400V)	A	4
400V         kW         14           500V         kW         16           Short-time allowable current for 10s (IEC/EN60947-1)         A         96           Protection fuse         gG (IEC)         A         20           aM (IEC)         A         10         Making capacity (RMS value)         A         92           Breaking capacity at voltage         440V         A         72           Soov         A         72           Resistance per pole (average value)         m0         10           Power dissipation per pole (average value)         m0         10           Power dissipation per pole (average value)         min         Nm         4.0.81           Tightening torque for terminals         min         Nm         0.8           max         Nm         1         min         9           Tightening torque for coil terminal         min         Nm         0.8	Rated operational power AC-1 (I≤40°C)			
500VkW16Short-time allowable current for 10s (IEC/EN60947-1)A96Protection fusegG (IEC)A20aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72SooVA72SooVA72Power dissipation per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC-3W0.81Tightening torque for terminalsminNm0.8Tightening torque for coil terminalminNm0.8				
Short-time allowable current for 10s (IEC/EN60947-1)       A       96         Protection fuse       gG (IEC)       A       20         aM (IEC)       A       10         Making capacity (RMS value)       A       92         Breaking capacity at voltage       440V       A       72         Soov       A       72         Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       mΩ       10         Power dissipation per pole (average value)       mΩ       10         Tightening torque for terminals       min       Nm       0.8         max       Nm       1       min       1         Tightening torque for coil terminal       min       Nm       0.8				
Protection fuse       gG (IEC)       A       20         aM (IEC)       A       10         Making capacity (RMS value)       A       92         Breaking capacity at voltage       440V       A       72         Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC-3       W       0.81         Tightening torque for terminals       min       Nm       0.8         max       Nm       1       min       9         Tightening torque for coil terminal       min       Nm       0.8		500V		
$\begin{tabular}{ c c c c c c c } & & & & & & & & & & & & & & & & & & &$			A	96
aM (IEC)A10Making capacity (RMS value)A92Breaking capacity at voltage440VA72440VA72500VA72Resistance per pole (average value)mΩ1010Power dissipation per pole (average value)IthW4AC-3W0.811Tightening torque for terminalsminNm0.8Tightening torque for coil terminalmin91Tightening torque for coil terminalminNm0.8	Protection fuse			
Making capacity (RMS value)       A       92         Breaking capacity at voltage       440V       A       72         S00V       A       72         Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC-3       W       0.81         Tightening torque for terminals       min       Nm       0.8         min       Ibin       9         Tightening torque for coil terminal       min       Nm       0.8		gG (IEC)	А	20
Breaking capacity at voltage     440V     A     72       Soov     A     72       Resistance per pole (average value)     mΩ     10       Power dissipation per pole (average value)     Ith     W     4       AC-3     W     0.81       Tightening torque for terminals     min     Nm     0.8       min     Ibin     9       Tightening torque for coil terminal     min     Nm     0.8		aM (IEC)	Α	10
$\begin{array}{c cccc} & 440 & A & 72 \\ \hline 500 & A & 72 \\ \hline \hline 800 & A & 72 \\ \hline \hline 800 & & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 & & & & & & \\ \hline 800 &$	Making capacity (RMS value)		А	92
500VA72Resistance per pole (average value)mΩ10Power dissipation per pole (average value)IthW4AC-3W0.81Tightening torque for terminalsminNm0.8minNm1min1minIbin9maxIbin9Tightening torque for coil terminalminNm0.8	Breaking capacity at voltage			
Resistance per pole (average value)       mΩ       10         Power dissipation per pole (average value)       Ith       W       4         AC-3       W       0.81         Tightening torque for terminals       min       Nm       0.8         min       Ibin       9         Tightening torque for coil terminal       min       Nm       1         min       Ibin       9         Tightening torque for coil terminal       min       Nm       0.8		440V	А	72
Power dissipation per pole (average value) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal min Nm 0.8		500V	А	72
Power dissipation per pole (average value)       Ith       W       4         AC-3       W       0.81         Tightening torque for terminals       min       Nm       0.8         min       Nm       1       min       Ibin       9         Tightening torque for coil terminal       min       Nm       0.8	Resistance per pole (average value)		mΩ	10
Ith     W     4       AC-3     W     0.81       Tightening torque for terminals     min     Nm     0.8       max     Nm     1     1       min     Ibin     9       Tightening torque for coil terminal     min     Nm     0.8				
AC-3       W       0.81         Tightening torque for terminals       min       Nm       0.8         max       Nm       1         min       Ibin       9         Tightening torque for coil terminal       min       Nm       0.8         min       Nm       1       0.8         Min       0.8       0.8       0.8		Ith	W	4
Tightening torque for terminals       min       Nm       0.8         max       Nm       1         min       Ibin       9         Tightening torque for coil terminal       min       Nm       0.8		AC-3		
min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal min Nm 0.8	Tightening torque for terminals			
max     Nm     1       min     Ibin     9       max     Ibin     9   Tightening torque for coil terminal       min     Nm     0.8		min	Nm	0.8
min     Ibin     9       max     Ibin     9       Tightening torque for coil terminal     min     Nm     0.8				
max     Ibin     9       Tightening torque for coil terminal     min     Nm     0.8				-
Tightening torque for coil terminal min Nm 0.8				
min Nm 0.8	Tightening torque for coil terminal	Παλ		~
	rightening torque for conterminal	min	Nm	0.8
max Nm 1			Nm	
max Ibin 9	Max number of wires simultaneously servestels	max		
Max number of wires simultaneously connectable         Nr.         2           Conductor section	· · · · · · · · · · · · · · · · · · ·		INF.	۷

AWG/Kcmil



## **11BGP09T4A02460** FOUR-POLE CONTACTOR, AC COIL 60HZ, 24VAC, REAR PCB SOLDER PIN

ENERGY AND AUTOMATION			
	max		12
	Flexible w/o lug conductor section		
	min	mm²	0.8
	max	mm²	2.5
	Flexible c/w lug conductor section		
	min		1.5
	max	mm²	2.5
	Flexible with insulated spade lug conductor section min	mm²	1.5
	max		2.5
Power terminal protect	ction according to IEC/EN 60529		IP00
Mechanical features			
Operating position			
	norma		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	186
Conductor section	AWG/kcmil conductor section		
	AVVG/KCMII conductor section max		12
Auxiliary contact char			12
Thermal current Ith		А	10
IEC/EN 60947-5-1 de	esignation		A600
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	500000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	- ,	500000
· · · · · · · · · · · · · · · · · · ·	mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1		yes
EMC compatibility			yes
Rated AC voltage at 6	SOHz	V	24
AC operating voltage		v	<u> </u>
	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	75
	max		115
	drop-out		
	min		20
	max	%Us	55
AC average coil cons	•		
	of 50/60Hz coil powered at 50Hz	\ /A	20
	in-rush bolding		30
	of 50/60Hz coil powered at 60Hz	VA	4
	in-rush	VA	25
	holding		3
	of 60Hz coil powered at 60Hz	• • •	-
		1/4	20

11BGP09T4A02460 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

in-rush

holding

VA

VA

30

4



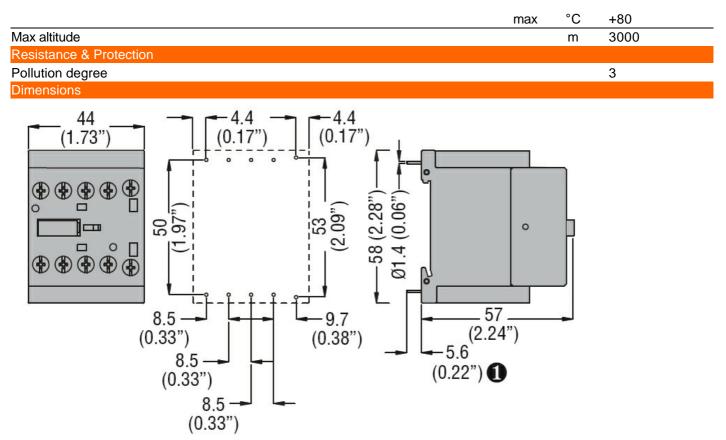
Dissipation at holding :	≤20°C 50Hz			W	0.95
Max cycles frequency					2000
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	ontrol				
Average time for 03 cc	in AC				
		Closing NO			
		5	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			47
			min	ms	17 26
		Opening NC	max	ms	20
		Opening NO	min	ms	7
			max	ms	17
	in DC				
	-	Closing NO			
		0	min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			0
			min	ms	3
		Opening NC	max	ms	5
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
	-		at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical pe					
	for single-phase A	C motor			
			110/120V	HP	0.5
		<u> </u>	230V	HP	1.5
	for three-phase AC	, motor	200/0001	ЦР	2
			200/208V 220/230V	HP HP	2 3
			220/230V 460/480V	HP HP	3 5
			575/600V	HP	5
General USE					
	Contactor				
			AC current	А	20
Ambient conditions					
Temperature					
	Operating tempera	ture			
			min	°C	-50
	0		max	°C	+70
	Storage temperatu	re		°C	60
			min	°C	-60

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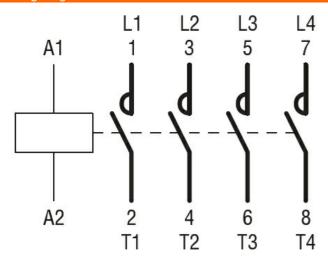
## 11BGP09T4A02460

FOUR-POLE CONTACTOR, AC COIL 60HZ, 24VAC, REAR PCB SOLDER PIN



Recommended PCB drillings 1.7-2mm.

Wiring diagrams



## Certifications and compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	cURus
	EAC



ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching