



Product designation			Power contactor
Product type designation			BGP09
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	500
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	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)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	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	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Max number of wires simultaneously connectable		Nr.	2

Conductor section

AWG/Kcmil





FOUR-POLE CONTACTOR, DC COIL, 110VDC, REAR PCB SOLDER PIN

Flexible wifo tug conductor section		may		12
Flexible civir lug conductor section		Flexible w/o lug conductor section		14
Flexible c/w lug conductor section min			mm²	0.8
Performance level B10d according to EC/EN 609474-4-1 Electrical life		max	mm²	2.5
Place Pla		Flexible c/w lug conductor section		
Flexible with insulated spade lug conductor section				
min			mm²	2.5
Power terminal protection according to IEC/EN 60529			mans?	1 E
Power terminal protection according to IEC/EN 60529 IPO0 Mechanical features				
Mechanical features Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 242 Conductor section max 12 Awaillary contact characteristics Termal current lth A 10 IEC/EN 60947-5-1 designation G 2000 2000 Operations Cycles 500000 Biectical life cycles 500000 Beformance level B10d according to EN/ISO 13489-1 rated load are mechanical load cycles 500000 Bimore contats according to IEC/EN 609474-4-1 rated control voltage yes DC coil operating yes DC coil operating yes DC cord control voltage yes DC coil operating yes DC cord operating of the current points of the c	Power terminal protect		111111	
Operating position normal allowable Vertical plan allowable Vertical plan allowable Screw / DIN rail a				.,
Pixing Riving				
Fixing Screw / DIN rail 30° Screw / DIN rail 35mm Weight g 242 Conductor section AWG/kcmil conductor section Max 12 Auxiliary contact characteristics Thermal current th	31	normal		Vertical plan
FixIng Weight g 242 Conductor section AWG/kcmil conductor section AWG/kcmil conductor section max 12 Auxiliary contact characteristics Thermal current lth A 10 IEC/EN 60947-5-1 designation Operations Wechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 Performance level B10d according to EN/ISO 13489-1 FixIng according to IEC/EN 609474-4-1 EXAMPLE AUXILIARY SAFE SAFE SAFE SAFE SAFE SAFE SAFE SAFE		allowable		
AWG/kcmil conductor section Awxiliary contact characteristics Thermal current Ith A 10 IEC/EN 60947-5-1 designation Q600 Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 Mirror contats according to IEC/EN 609474-4-1 yes 20000000 EMC compatibility yes 20000000 DC coil operating v 110 110 DC operating voltage v 10 15 Mirror contats according to IEC/EN 609474-4-1 min %Us 75 Marcor point control cont	Fixing			
AWG/kcmil conductor section max 12 Auxiliary contact characteristics Thermal current lth A 10 IEC/EN 60947-5-1 designation Qodo Operations Wechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 Frated load mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes OC caid operating DC rated control voltage V 110 DC operating voltage pick-up frated load (sycles 20000000) Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes OC caid operating voltage DC rated control voltage V 110 DC operating voltage pick-up frated load (sycles 500000) Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes OC caid operating voltage V 110 DC value of the sycles of	Weight		g	242
Maxiliary contact characteristics Thermal current lith A 10 IEC/EN 60947-5-1 designation Q600 Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data rated load cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 rated load cycles 200000000 Mirror contats according to IEC/EN 609474-4-1 yes EM EMC compatibility yes EM Yes D D T <th< td=""><td>Conductor section</td><td></td><td></td><td></td></th<>	Conductor section			
Auxiliary contact characteristics		AWG/kcmil conductor section		
Thermal current Ith				12
EC/EN 60947-5-1 designation	-	octeristics	^	10
Operations Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating Ur ated control voltage V 110 DC operating voltage min wax %Us 75 max %Us 115 drop-out min wax %Us 25 Average coil consumption ≤20°C in-rush wax you 3.2 wax cycles frequency Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min min min ms 12		sion of in p	A	
Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data rated load performance level B10d according to EN/ISO 13489-1 rated load performance level B10d according to EN/ISO 13489-1 cycles 500000 cycles 500000 cycles 20000000		signation		Q600
Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes DC coil operating DC rated control voltage V 110 DC operating voltage pick-up min %Us 75 max %Us 115 drop-out min %Us 10 max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 holding W 3.2 Max cycles frequency Mechanical operation Operating times Average time for Us control in AC Closing NO min ms 12	•		cycles	20000000
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Performance level B10d according to EN/ISO 13489-1 rated load mechanical load ovycles 500000 color 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating V 110 DC operating voltage win %Us 75 Max %Us 115 drop-out min %Us 10 drop-out min %Us 10 Average coil consumption ≤20°C in-rush holding W 3.2 Average trequency workless frequency sycles/h 3600 Operating times Closing NO min ms 12			Oy OlO3	
rated load cycles 500000 mechanical load cycles 20000000 mechanical load cycles cycle	· · · · · · · · · · · · · · · · · · ·	0d according to EN/ISO 13489-1		
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating yes DC rated control voltage V 110 DC operating voltage min wull wull wull wull wull wull wull wul		_	cycles	500000
EMC compatibility yes DC coil operating		mechanical load	•	20000000
DC coil operating V	Mirror contats according	ng to IEC/EN 609474-4-1		yes
DC rated control voltage DC operating voltage v 110 min max %Us 75 max 75 max drop-out min max %Us 10 max Average coil consumption ≤20°C in-rush max W 3.2 holding w Max cycles frequency Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12				yes
DC operating voltage				
Pick-up		ge	V	110
min wus 75 max %Us 115 drop-out min wus 10 %Us 10 max %Us 25 10 Average coil consumption ≤20°C in-rush W 3.2 3.2 holding W 3.2 W 3.2 Max cycles frequency V 3.2 Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12	DC operating voltage			
max %Us 115 drop-out min %Us 10 max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 holding W 3.2 Max cycles frequency Wechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12			0/11-	75
drop-out min %Us 10 max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12				
min %Us 10 max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12			/005	110
max %Us 25 Average coil consumption ≤20°C in-rush holding W 3.2 holding W 3.2 Max cycles frequency W 3.2 W 3.2 W Mechanical operation Cycles/h 3600 3600 Operating times S S S S S Closing NO Min Ms 12 Min ms 12		•	%Us	10
Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12				
in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12	Average coil consump			
Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control			W	3.2
Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 12		holding	W	3.2
Operating times Average time for Us control				
Average time for Us control in AC Closing NO min ms 12			cycles/h	3600
in AC Closing NO min ms 12				
Closing NO min ms 12	Average time for Us co			
min ms 12				
				10
max ms 21				
		IIIdX	1115	۷ ا



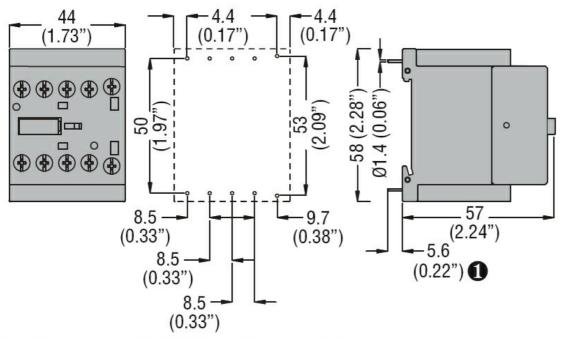


FOUR-POLE CONTACTOR, DC COIL, 110VDC, REAR PCB SOLDER PIN

		Opening NO			
		- pg	min	ms	9
			max	ms	18
		Closing NC			
		3	min	ms	17
			max	ms	26
		Opening NC			
		, 0	min	ms	7
			max	ms	17
	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
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe	rformance				
	for single-phase AC r	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	otor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				
			AC current	Α	20
Ambient conditions					
Temperature					
	Operating temperatur	e			
			min	°C	-50
			max	°C	+70
	Storage temperature				_
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Resistance & Protection	n				
Pollution degree					3
Dimensions					

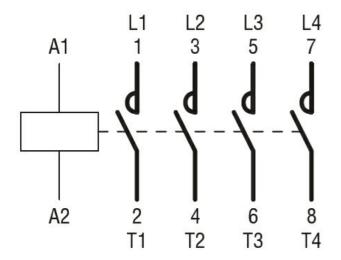


ENERGY AND AUTOMATION



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