





Product designation			Power contactor
Product type designation			BGP09
Contact characteristics			
Number of poles		Nr.	3
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-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
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)	Α	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 connect	able	Nr.	2
Conductor section			
AWG/Kcmil			
	max		12
Flexible w/o lug cond	ductor section		
	min	mm²	0.8
	max	mm²	2.5
Flexible c/w lug cond			
	min	mm²	1.5
	max	mm²	2.5
Flexible with insulate	d spade lug conductor section		
	min	mm²	1.5
	max	mm²	2.5
Power terminal protection according to IEC/E	EN 60529		IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	200
MEIGHT		9	200
Conductor section	or section		
			12
Conductor section AWG/kcmil conducto	or section max		12
Conductor section AWG/kcmil conductor Auxiliary contact characteristics		A	12
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith		Α	
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation		Α	10
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation	max	A	10 A600 - Q600
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation	max 230V		10 A600 - Q600
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation	230V 400V	A A	10 A600 - Q600 3 1.9
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15	max 230V	A	10 A600 - Q600
Conductor section AWG/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Awailiary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V	A A	10 A600 - Q600 3 1.9
Awg/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Awg/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Awg/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V 500V 110V	A A A	10 A600 - Q600 3 1.9 1.4 2.9
Awg/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Awg/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V 500V 110V 24V 48V 60V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
Awg/kcmil conductor Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12	230V 400V 500V 110V 24V 48V 60V 125V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3
Awailiary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current AC15 Operating current DC12 Operating current DC13	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operations	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1
Awailiary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operations Mechanical life	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operating current DC13 Operations Mechanical life Electrical life Safety related data	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A Cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operating current DC13 Operations Mechanical life Electrical life Safety related data	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operating current DC13 Operations Mechanical life Electrical life Safety related data	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 designation Operating current DC12 Operating current DC13 Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISC	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000
Conductor section	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000

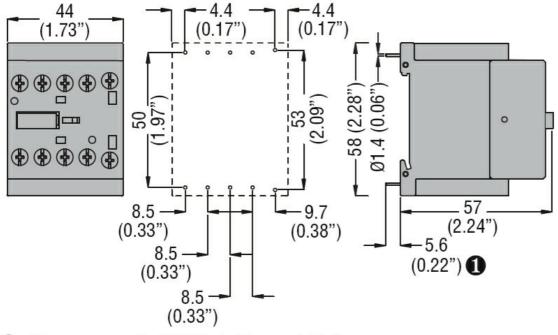




Rated AC voltage at 60)Hz			V	230
AC operating voltage					
	of 60Hz coil power				
		pick-up	min	0/116	75
			min max	%Us %Us	75 115
		drop-out	IIIax	/003	113
		diop out	min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
	. (0011		holding	VA	3
	of 60Hz coil powe	ereu at ounz	in-rush	VA	30
			in-rush holding	VA VA	4
Dissipation at holding :	 ≤20°C 50Hz		noluling	W	0.95
Max cycles frequency	5 5 501 12			V V	J.00
Mechanical operation				cycles/h	3600
Operating times				,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			0
			min	ms	9 18
		Closing NC	max	ms	10
		Closing NC	min	ms	17
				1110	1.7
				ms	26
		Opening NC	max	ms	26
		Opening NC		ms ms	267
		Opening NC	max		
	in DC		max min	ms	7
	in DC	Opening NC Closing NO	max min max	ms	7 17
	in DC		max min max min	ms ms	7 17 18
	in DC	Closing NO	max min max	ms ms	7 17
	in DC		max min max min max	ms ms ms	7 17 18 25
	in DC	Closing NO	max min max min max min max	ms ms ms ms	7 17 18 25
	in DC	Closing NO Opening NO	max min max min max	ms ms ms	7 17 18 25
	in DC	Closing NO	max min max min max min max	ms ms ms ms	7 17 18 25 2
	in DC	Closing NO Opening NO	max min max min max min max min max min	ms ms ms ms ms	7 17 18 25 2 3
	in DC	Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms	7 17 18 25 2
	in DC	Closing NO Opening NO	max min max min max min max min max min	ms ms ms ms ms ms	7 17 18 25 2 3
	in DC	Closing NO Opening NO Closing NC	max min max min max min max min max	ms ms ms ms ms	7 17 18 25 2 3 3
JL technical data	in DC	Closing NO Opening NO Closing NC	max min max min max min max min max min max min max	ms ms ms ms ms ms	7 17 18 25 2 3 3 5
JL technical data Full-load current (FLA)		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms ms ms ms ms ms	7 17 18 25 2 3 3 5
		Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min max min max	ms ms ms ms ms ms	7 17 18 25 2 3 3 5



Yielded mechanical	performance			
·	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
	kiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	otion			
Pollution degree				3
Dimensions				

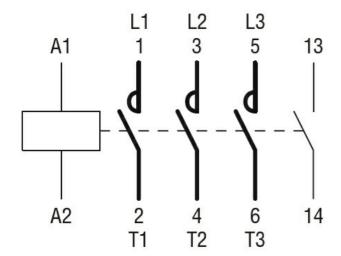


• Recommended PCB drillings 1.7-2mm.

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