





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



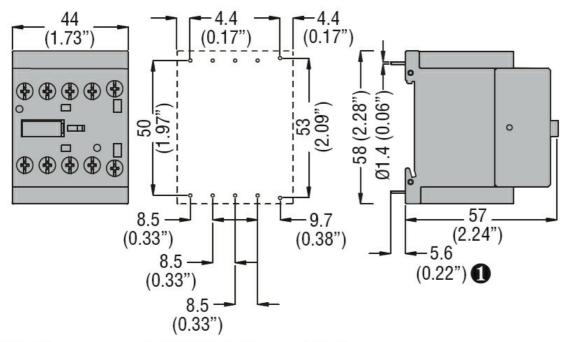


Rated AC voltage at 60	0Hz			V	48
AC operating voltage					
	of 60Hz coil po	owered at 60Hz			
		pick-up		0/11-	75
			min	%Us	75
		drop-out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	ımption at 20°C			,,,,,	
J		l powered at 50Hz			
		•	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coi	l powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz			
			in-rush	VA	30
Dissipation at Include	<20°C FOLI-		holding	VA	4
Dissipation at holding : Max cycles frequency	≥20°C 50HZ			W	0.95
Mechanical operation				cycles/h	3600
Operating times				Cycles/11	3000
Average time for Us co	ontrol				
g	in AC				
		Closing NO			
		<u> </u>	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		On aning NC	max	ms	26
		Opening NC	min	me	7
			min max	ms ms	7 17
	in DC		шах	1113	1.1
	20	Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
		On selection NO	max	ms	5
		Opening NC	•	,	11
			min	ms	11
UL technical data			max	ms	17
Full-load current (FLA)	for three-phase	AC motor			
an load bullofft (I LA)	, ioi unoc phase	, comotor	at 480V	Α	7.6
			at 600V	A	6.1
				- •	- •





Yielded mechanica	al 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
Contact rating of a	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	s			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3
Dimensions				

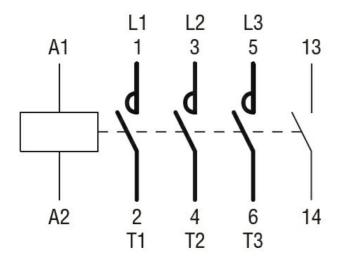


• Recommended PCB drillings 1.7-2mm.

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