





Product type designation Scale	Product designation			Power contactor
Number of poles				BGP09
Rated insulation voltage Ui IEC/EN				•
Rated impulse withstand voltage Uimp	<u> </u>			
Part				
Max Hz 25 max Hz 400 EC Conventional free air thermal current Ith A 20 Operational current Ie AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440√ ≤55°C) A 9 AC-4 (400√) A 4 Rated operational power AC-3 (T≤55°C) AC-3 (≤440√ ≤55°C) A 9 AC-4 (400√) A 4 Rated operational power AC-3 (T≤55°C) AC-3 (≤440√ ≤55°C) A 9 AC-4 (400√) A 4 AU V W 4.3 AU V W 4.5 500√ W 5 Rated operational power AC-1 (T≤40°C) AC-3 (MW 14 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 A40√ 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 Ibin 9 max Ibin 9 Tightening torque for coil terminal			kV	6
Max	Operational frequency			
EC Conventional free air thermal current Ith				
Operational current le AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-1 (≤70°C) A 15 AC-3 (≤4400√ ≤55°C) A 9 AC-4 (400√) A 4 Rated operational power AC-3 (T≤55°C) 230√ kW 2.2 400√ kW 4.3 415√ kW 4.3 440√ kW 4.5 500√ kW 5 Rated operational power AC-1 (T≤40°C) 230√ kW 8 400√ kW 14 45√ kW 14 500√ kW 14 500√ kW 14 500√ kW 16 5000√ kW 16 5000√ kW 16 500√ kW 16 500√ kW 16 5000√ kW 16 500√ kW 16 500√ kW 16 5000√ kW 16	1500	max		
AC-1 (≤40°C)			A	20
AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440V ≤55°C) A 9 AC-4 (4400V) A 4 AC-3 (≤440V ≤55°C) A 9 AC-4 (4400V) A 4 AC-3 (4400V ≤75°C) A 9 AC-4 (4400V) A 4 AC-3 (4400V KW 4 4 4 4 4 4 4 4 4	Operational current le		_	
AC-1 (≤70°C) A 15 AC-3 (≤440V ≤55°C) A 9 AC-4 (400V) A 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) 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 500V 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 Ibin 9 max Ibin 9 Tightening torque for coil terminal		•		
AC-3 (≤440V ≤55°C)		, ,		
AC-4 (400V)		, ,		
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) 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 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) mΩ 10 Protection fuse Ith W 4 A 92 Resistance per pole (average value) mΩ 10 Power dissipation per pole (average value) m 0 Ith W 4		` ,		
230V kW 2.2 440V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 500V kW 5 500V kW 5 500V kW 5 500V kW 14 500V kW 16 500V		AC-4 (400V)	A	4
400V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 500V kW 14 500V kW 14 500V kW 16 500V kW	Rated operational power AC-3 (1≤55°C)	2001/		
A15V kW 4.3 A440V kW 4.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 4400V 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 A40V A 72 500V A 72 Resistance per pole (average value) 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				
A40V kW 4.5				
Soov kW 5				
Rated operational power AC-1 (T≤40°C)				
230V kW 8 400V kW 14 500V kW 16	D. I. I. I. A. O. A. (T. 14000)	500V	KVV	5
400V kW 14 500V kW 16	Rated operational power AC-1 (1≤40°C)	2001/		
Short-time allowable current for 10s (IEC/EN60947-1)				
Short-time allowable current for 10s (IEC/EN60947-1)				
Protection fuse gG (IEC)	01 11 11 11 11 11 11 11 11 11 11 11 11 1	500V		
GG (IEC)	, , ,		A	96
A 10 Making capacity (RMS value)	Protection fuse	0 (150)		
Making capacity (RMS value) A 92 Breaking capacity at voltage 440V A 72 500V 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 Ibin 9 max Ibin 9 Tightening torque for coil terminal Tightening torque for coil terminal		• , ,		
Breaking capacity at voltage		aM (IEC)		
440V A 72 500V A 72 72 72 72 72 73 74 75 75 75 75 75 75 75			A	92
Soov A 72	Breaking capacity at voltage			
Resistance per pole (average value) 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				
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		500V		
Ith W 4 AC-3 W 0.81			mΩ	10
AC-3 W 0.81	Power dissipation per pole (average value)			
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 max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal		AC-3	W	0.81
max Nm 1 min Ibin 9 max Ibin 9 Tightening torque for coil terminal	Tightening torque for terminals			
min Ibin 9 max Ibin 9 Tightening torque for coil terminal		min		0.8
max Ibin 9 Tightening torque for coil terminal				
Tightening torque for coil terminal		min		
		max	Ibin	9
min Nm 0.8	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 1.1
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 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
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

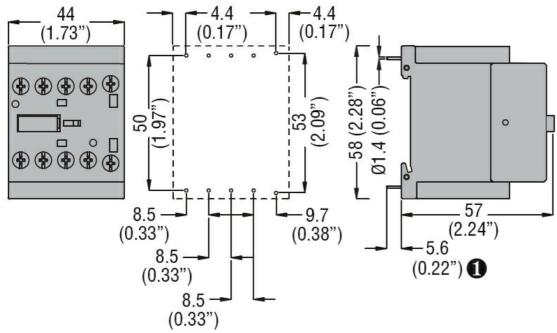




Rated AC voltage at 60)Hz			V	24
AC operating voltage					
	of 60Hz coil power				
		pick-up		0/11	7-
			min	%Us	75
		duam aut	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	motion at 20°C		IIIax	/003	33
to average con consu	of 50/60Hz coil p	owered at 50Hz			
	01 00/001 12 0011 p	0W0100 0t 00112	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	owered at 60Hz	<u></u>		
	от от от те		in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz	<u> </u>		
	·		in-rush	VA	30
			holding	VA	4
: Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC	0			
		Closing NO			40
			min	ms	12
		Opening NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC	max	1113	10
		Closing 140	min	ms	17
			max	ms	26
		Opening NC			
		, 5	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		Q1 · · · · ·	max	ms	3
		Closing NC			0
			min	ms	3
		Opening NO	max	ms	5
		Opening NC	min	me	11
			min	ms ms	11 17
JL technical data			max	ms	17
Full-load current (FLA)	for three-phase M	C motor			
un-ioau cuitetti (FLA)	ioi iiiiee-piiase At	J IIIUIUI	at 480V	Α	7.6
			at 600V	A	6.1
			at 000 V		J. 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				

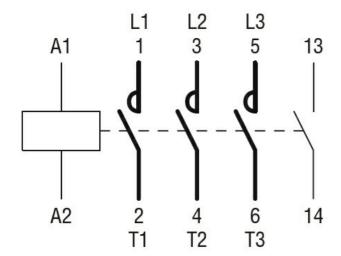


• Recommended PCB drillings 1.7-2mm.

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