





Product type designation Sep09 Contact characteristics	Product designation			Power contactor
Number of poles	7,7			BGP09
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 A 20 Operational current Ie AC-1 (≤40°C) A 20 AC-1 (≤55°C) A 15 AC-1 (≤50°C) A 15 AC-3 (4400V) KW A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T≤55°C) 230V kW 4 5 5 5 6 6 6 7 2 4 4 4 4 5			.,	•
Rated impulse withstand voltage Uimp	•			
Protection fuse Protection per pole (average value) Protection fuse Protect	<u>-</u>			
Main Hz 25 max Hz 400 EC Conventional free air thermal current Ith	·		kV	6
EC Conventional free air thermal current lth	Operational frequency			
EC Conventional free air thermal current Ith				
Operational current le AC-1 (≤450°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤755°C) A 15 AC-1 (≤70°C) A 15 AC-1 (≤70°C) A 15 AC-3 (≤4400 ≤55°C) A 9 AC-4 (4000V) 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 5 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 500V	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 (400V) A 4 AC-4 (400V) AC-	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) 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) Ith W 4 AC-3 W 0.81 Tightening torque for terminals min Nm 0.8 max Nm 1 min 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 4401 415V kW 4.3 4440V kW 4.5 500V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 14 500V kW 14 500V 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 72 72 72 72 72 72 72 72 72 72 72 72		,		
230V kW 2.2 400V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 500V kW 14 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 5 5 5 5 5 5 5 5 5	Rated operational power AC-3 (T≤55°C)			
A15V kW 4.3 A40V 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 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 500V kW 5				
Rated operational power AC-1 (T≤40°C) 230V kW 8 4400V kW 14 500V kW 16 500V kW 10 500V kW 16 500V kW 10 500V kW 10 500V kW 16 500V kW 16 500V kW 16 500V kW 10 500V kW 10 500V kW 10 500V kW 10 500V kW 16				
Rated operational power AC-1 (T≤40°C)				
230V		500V	kW	5
400V kW 14 500V kW 16	Rated operational power AC-1 (T≤40°C)			
Short-time allowable current for 10s (IEC/EN60947-1)				
Short-time allowable current for 10s (IEC/EN60947-1)				
Protection fuse gG (IEC)		500V		
GG (IEC)	,		A	96
A 10	Protection fuse	- ·	_	
Making capacity (RMS value) A 92		• , ,		
Breaking capacity at voltage		aM (IEC)		
Adol			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		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
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





			N. I	4
		max	Nm	1
		min	lbin	9
Max number of wires	simultanaayah aannaatahla	max	Ibin Nr.	9
Conductor section	simultaneously connectable		INI.	
Conductor Section	AWG/Kcmil			
	AVO/Remii	max		12
	Flexible w/o lug conductor section	max		12
	rickible we lag conductor couldn	min	mm²	0.8
		max	mm²	2.5
	Flexible c/w lug conductor section			
	· ·	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Power terminal protec	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	200
Conductor section	AMO (I			
	AWG/kcmil conductor section			40
		max		12
Auxiliary contact chara	oteristics			
Auxiliary contact chara	octeristics		Α	
Thermal current Ith			Α	10
Thermal current Ith IEC/EN 60947-5-1 dea	signation		A	
Thermal current Ith	signation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 dea	signation	230V	A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 dea	signation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 dea	signation 5	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1	signation 5	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1	signation 5	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1 Operating current DC1	signation 5	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1 Operating current DC1	signation 5	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1 Operating current DC1	signation 5	230V 400V 500V 110V 24V 48V 60V	A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1 Operating current DC1	signation 5	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
Thermal current lth IEC/EN 60947-5-1 des Operating current AC1 Operating current DC1	signation 5	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
Thermal current lth IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1	signation 5	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1	signation 5	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life	signation 5	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
Thermal current lth IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life	signation 5	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life Safety related data	signation 5	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life Safety related data	signation 5	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life Safety related data	signation 5 12 13 Od according to EN/ISO 13489-1	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B10	signation 5 12 13 Od according to EN/ISO 13489-1 med	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
Thermal current Ith IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according	signation 5 12 13 Od according to EN/ISO 13489-1	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 yes
Thermal current lth IEC/EN 60947-5-1 det Operating current AC1 Operating current DC1 Operating current DC1 Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B10	signation 5 12 13 Od according to EN/ISO 13489-1 med	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



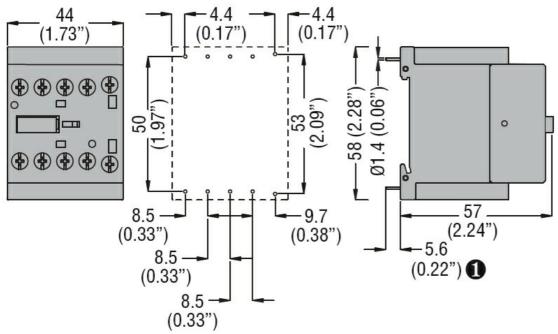


Rated AC voltage at 6	60Hz			V	120
AC operating voltage					
	of 60Hz coil pov				
		pick-up		0/11-	7.5
			min max	%Us %Us	75 115
		drop-out	IIIax	/003	113
		Grop out	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				
	of 50/60Hz coil	powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz	2 1) /A	0.5
			in-rush	VA VA	25
	of 60Hz coil pov	vered at 60Hz	holding	VA	3
	01 001 12 0011 p01	vorou at our IZ	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 c					
	in AC	Clasias NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	max	0	
		. 3	min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		O v viv NO	max	ms	26
		Opening NC	min	ma	7
			min max	ms ms	, 17
	in DC		IIIdA	1113	11
		Closing NO			
		J	min	ms	18
			max	ms	25
		Opening NO			_
					2
			min	ms	2
		Closing NC	min max	ms ms	3
		Closing NC	max	ms	3
		Closing NC	max min	ms ms	3
		-	max	ms	3
		Closing NC Opening NC	max min	ms ms	3
		-	max min max	ms ms ms	3 3 5
UL technical data		-	max min max min	ms ms ms	3511
UL technical data Full-load current (FLA	.) for three-phase A	Opening NC	max min max min max	ms ms ms ms	3 5 11 17
	.) for three-phase A	Opening NC	max min max min	ms ms ms	3511





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
Contact rating of aux	ciliary 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	ction			
Pollution degree				3
Dimensions				

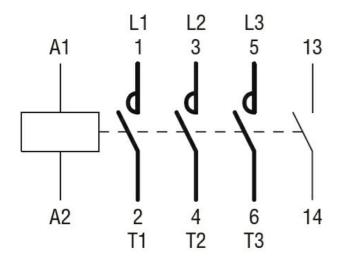


• Recommended PCB drillings 1.7-2mm.

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