



Product designation Product type designation			Power contactor 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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	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)		Α	96
Protection fuse			
	gG (IEC)	A	20
Multise second (DMO set a)	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage	44014	•	70
	440V	A	72
	500V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)	141-	14/	4
	Ith	W	4
The standard for the second second	AC-3	W	0.81
Tightening torque for terminals		N lur-	0.9
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	9
Tightoning torque for acil terminal	max	lbin	9
Tightening torque for coil terminal	!	Nime	0.9
	min	Nm	0.8



		max	Nm	1
		min	lbin	9
		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	
		min	mm²	0.8
		max	mm²	2.5
	Flexible c/w lug conductor section		2	
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
-	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Tiving				Screw / DIN ra
Fixing				35mm
Weight			g	198
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
EC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC1	-			
		230V	А	3
		400\/	Δ	1 4
		400V	A	1.9 1 <i>4</i>
Operating current DC	12	400V 500V	A A	1.9 1.4
Operating current DC <sup>2</sup>	12	500V	A	1.4
Operating current DC <sup>2</sup> Operating current DC <sup>2</sup>		500V 110V	A	1.4 2.9
		500V 110V 24V	A A A	1.4   2.9   2.9
		500V 110V 24V 48V	A A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A A	1.4   2.9   2.9   1.4   1.1
		500V 110V 24V 48V 60V 125V	A A A A A A A	1.4     2.9     2.9     1.4     1.1     0.3
		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A	1.4     2.9     1.4     1.1     0.3     0.1
Dperating current DC <sup>2</sup>		500V 110V 24V 48V 60V 125V	A A A A A A A	1.4     2.9     2.9     1.4     1.1     0.3
Dperating current DC <sup>2</sup>		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A	1.4     2.9     1.4     1.1     0.3     0.1     0.6
Operating current DC <sup>2</sup>		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles	1.4     2.9     1.4     1.1     0.3     0.1     0.6     20000000
Dperating current DC <sup>2</sup> Dperations Mechanical life Electrical life		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A	1.4     2.9     1.4     1.1     0.3     0.1     0.6
Dperating current DC <sup>2</sup> Dperations Mechanical life Electrical life		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles	1.4     2.9     1.4     1.1     0.3     0.1     0.6     20000000
Operating current DC <sup>4</sup> Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles	1.4     2.9     1.4     1.1     0.3     0.1     0.6     20000000
Operating current DC <sup>4</sup> Operations Mechanical life Electrical life Safety related data	13	500V 110V 24V 48V 60V 125V 220V	A A A A A A A A Cycles cycles	1.4     2.9     1.4     1.1     0.3     0.1     0.6     20000000
Operating current DC <sup>4</sup> Operations Mechanical life Electrical life Safety related data	13 0d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A Cycles	1.4     2.9     1.4     1.1     0.3     0.1     0.6     20000000     500000
Operating current DC <sup>2</sup> Operations Mechanical life Electrical life Safety related data Performance level B1	13 0d according to EN/ISO 13489-1 mec	500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A Cycles cycles	1.4     2.9     1.4     1.1     0.3     0.1     0.6     20000000     500000     500000     20000000
Operating current DC <sup>2</sup> Operations Mechanical life Electrical life Safety related data Performance level B1	13 0d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

Rated AC voltage at 5	0/60Hz			V	24
AC operating voltage				_	
	of 50/60Hz coil	powered at 50Hz			
		pick-up		0/11-	75
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us %Us	20 55
	of 50/60Hz coil	powered at 60Hz	Πιαλ	/003	
		pick-up			
		hinir ah	min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consi	umption at 20°C				
-		powered at 50Hz			
	·		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz	-		
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	vered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency					
Mechanical operation					
Departing times				cycles/h	3600
	ontrol			cycles/h	3600
				cycles/h	3600
	ontrol in AC			cycles/h	3600
		Closing NO			
		Closing NO	min	ms	12
		-			
		Closing NO Opening NO	min max	ms ms	12 21
		-	min max min	ms ms ms	12 21 9
		Opening NO	min max	ms ms	12 21
		-	min max min max	ms ms ms ms	12 21 9 18
		Opening NO	min max min max min	ms ms ms ms ms	12 21 9 18 17
		Opening NO Closing NC	min max min max	ms ms ms ms	12 21 9 18
		Opening NO	min max min max min	ms ms ms ms ms ms	12 21 9 18 17
		Opening NO Closing NC	min max min max min max	ms ms ms ms ms	12 21 9 18 17 26
	in AC	Opening NO Closing NC	min max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
		Opening NO Closing NC	min max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
	in AC	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
	in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	min max min max min max min max min	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Operating times Average time for Us c	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2

11BGP0910A024 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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ms

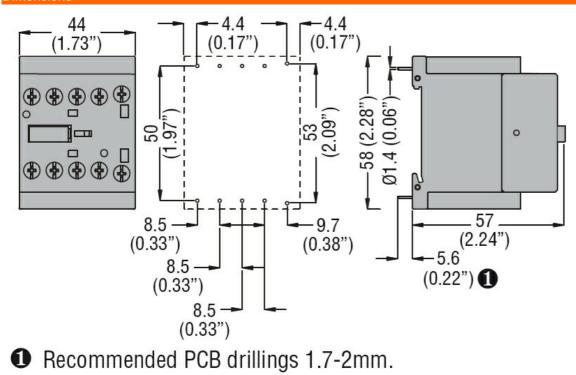
max



Opening NC			
	min	ms	11
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	А	7.6
	at 600V	Α	6.1
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 auxiliary 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 & Protection			

Pollution degree

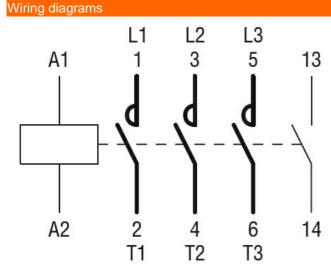
Dimensions



3



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## 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