electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN **ENERGY AND AUTOMATION**



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



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		max	Nm	1
		min	lbin	9
		max	lbin	9
	multaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		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
	on according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
\			g	240
	AWG/kcmil conductor section			
Conductor section		max		12
Conductor section Auxiliary contact charac		max		
Conductor section Auxiliary contact charact Thermal current Ith	cteristics	max	A	10
Conductor section Auxiliary contact charac Thermal current Ith IEC/EN 60947-5-1 desi	ignation	max		
Conductor section Auxiliary contact charac Thermal current Ith IEC/EN 60947-5-1 desi	ignation		A	10 A600 - Q600
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi	ignation	230V	A	10 A600 - Q600
Conductor section Auxiliary contact charac Thermal current Ith IEC/EN 60947-5-1 desi	ignation	230V 400V	A A A	10 A600 - Q600 3 1.9
Conductor section Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation	230V	A	10 A600 - Q600
Conductor section Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation 5	230V 400V	A A A	10 A600 - Q600 3 1.9
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation 5	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Conductor section Auxiliary contact charace Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15 Operating current DC12	ignation 5	230V 400V 500V 110V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Conductor section Auxiliary contact charace Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15 Operating current DC12	ignation 5	230V 400V 500V 110V 24V 48V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation 5	230V 400V 500V 110V 24V 48V 60V	A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1
Auxiliary contact charactermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation 5	230V 400V 500V 110V 24V 48V 60V 125V	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
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15	ignation 5	230V 400V 500V 110V 24V 48V 60V 125V 220V	A 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
Auxiliary contact characteristics Thermal current Ith IEC/EN 60947-5-1 desired Coperating current AC15 Operating current DC12 Operating current DC13	ignation 5	230V 400V 500V 110V 24V 48V 60V 125V	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
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15 Operating current DC12 Operating current DC13	ignation 5	230V 400V 500V 110V 24V 48V 60V 125V 220V	A 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 charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current AC15 Operating current DC12 Operating current DC13 Operating current DC13 Operating current DC13	ignation 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
Auxiliary contact characteristics Thermal current lth IEC/EN 60947-5-1 desired Operating current DC12 Operating current DC12 Operating current DC13 Operating current DC13 Operating current DC13 Electrical life	ignation 5	230V 400V 500V 110V 24V 48V 60V 125V 220V	A 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 charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current DC12 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data	ignation 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
Auxiliary contact characteristics Thermal current lth IEC/EN 60947-5-1 desired Operating current DC12 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data	ignation 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
Auxiliary contact charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current DC12 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data	ignation 2 3 d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A 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 charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current DC12 Operating current DC12 Operating current DC13 Operations Mechanical life Electrical life Safety related data	ignation 2 3 d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A 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 charact Thermal current Ith IEC/EN 60947-5-1 desi Operating current DC12 Operating current DC12 Operating current DC13 Operating current DC13 Operations Mechanical life Electrical life Safety related data Performance level B10	ignation 2 3 d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A 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
	ignation 2 3 Id according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A 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



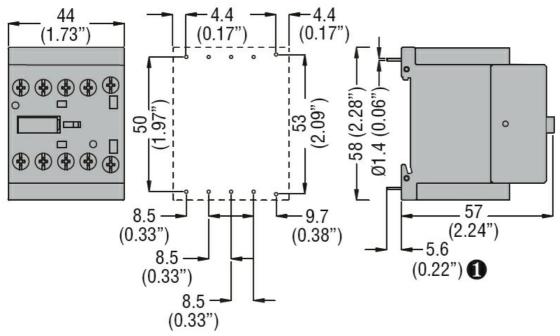
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DC rated control voltage			V	24
DC operating voltage				
pick	-up			
		min	%Us	75
		max	%Us	115
drop	o-out			
		min	%Us	10
		max	%Us	25
Average coil consumption ≤	20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us control				
in A	С			
	Closing NO			
	3 -	min	ms	12
		max	ms	21
	Opening NO			
	-1 - 3 -	min	ms	9
		max	ms	18
	Closing NC			
	3 -	min	ms	17
		max	ms	26
	Opening NC			
	a paramig	min	ms	7
		max	ms	17
in D	С			
	Closing NO			
	5.55m.g	min	ms	18
		max	ms	25
	Opening NO			
	-1 - 3 -	min	ms	2
		max	ms	3
	Closing NC			-
	5.55m.g	min	ms	3
		max	ms	5
	Opening NC		-	
	-19	min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA) for th	ree-phase AC motor			
	•	at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical perform	ance	31001		<u> </u>
	single-phase AC motor			
101 0	g.2 p300 / 10 / 1000	110/120V	HP	0.5
		230V	HP	1.5
for t	hree-phase AC motor	200 V		
101 t	pridos rio motor	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5

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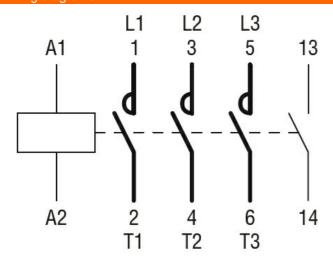
ENERGY AND AUTOMATION

General USE				
	Contactor			
		AC current	Α	20
Contact rating of au	xiliary 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 & Prote	ction			
Pollution degree				3
Dimensions				



• Recommended PCB drillings 1.7-2mm.

Wiring diagrams



Certifications and compliance





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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