ENERGY AND AUTOMATION

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN



Product designation Product type designation			Power contactor BGP09
Contact characteristics			20.00
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	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	min	Nm	0.8



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AWG/Kcmil max 12 12 12 12 12 12 12 1					
Max number of wires simultaneously connectable			max	Nm	1
Max number of wires simultaneously connectable Nr. 2 Conductor section max 12 Flexible w/o lug conductor section min mm² 0.8 Flexible c/w lug conductor section min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 1.5 Maximum mm² 1.5 mm² 2.5 Power terminal protection according to IEC/EN 60529 mm² 1.5 mm² 2.5 1.5 mm² 2.5 1.5 mm² 2.5 1.5 mm² 2.5 1.5 1.5 mm² 2.5 1.5 1.5 1.5 1.5 mm² 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5			min	lbin	9
AWG/Kcmil			max	lbin	
AWG/Kcmil Piexible w/o lug conductor section Piexible w/o lug conductor section Piexible w/o lug conductor section Piexible c/w lug conductor section Piexible c/w lug conductor section Piexible c/w lug conductor section Piexible with insulated spade lug conductor section Piexible with insulated spad	Max number of wires	simultaneously connectable		Nr.	2
Plexible w/o lug conductor section	Conductor section				
Flexible w/o lug conductor section		AWG/Kcmil			
Minia			max		12
Flexible c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section			min		
Principal Pri			max	mm²	2.5
Properties Pro		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section min mm² mm² 1.5 max mm² 2.5 mm²			min		
Minitary Marchanical features Marchanic			max	mm²	2.5
Max		Flexible with insulated spade lug conductor section			
Power terminal protection according to IEC/EN 60529			min		
Mechanical features Operating position normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm Weight g 240 Conductor section max 12 Auxiliary contact characteristics Thermal current lth A 10 IEC/EN 60947-5-1 designation A 10 Operating current AC15 230V A 3 400V A 1.4 Operating current DC12 110V A 2.9 48V A 1.4 Operating current DC13 24V A 2.9 48V A 1.4 600V A 0.3 2.20V A 0.3 220V A 0.1 0.0 0.3 0.0 0.0 Operations Western and part of the part of th			max	mm²	
Operating position normal allowable Vertical plan ±30° Fixing screw / DIN rail 35mm Weight g 240 Conductor section AWG/kcmil conductor section max 12 Auxiliary contact characteristics Thermal current thin A 10 IEC/EN 60947-5-1 designation A 10 Operating current AC15 230V A 3 400V A 1.9 500V A 1.9 60V A 1.9 50V A 1.9 50V A 1.9 Coperating current DC12 24V A 2.9 Operating current DC13 24V A 2.9 ABARCE ARCHARDAGE A 1.1 1.1 125V A 0.3 2.0 Coperations Cycles 2000000 Electrical life cycles 500000 Safety relat		ction according to IEC/EN 60529			IP00
Normal allowable Normal allo					
Fixing Screw / DIN rail 35mm	Operating position				
Screw DIN rail 35mm 35mm					
PEXING g 240			allowable		
AWG/kcmil conductor section	Fixing				
AWG/kcmil conductor section Max	Weight			g	240
Max 12 12 12 12 13 14 15 15 15 15 15 15 15	Conductor section				
Auxiliary contact characteristics		AWG/kcmil conductor section			
Thermal current Ith A 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V A 1.9 A00V A 1.9 500V A 1.4 Operating current DC12 110V A 2.9 Operating current DC13 24V A 2.9 48V A 1.4 60V A 1.1 60V A 1.1 125V A 0.3 125V A 0.3 225V A 0.3 220V A 0.1 600V A 0.6 Operations Cycles 500000 Electrical life cycles 500000 Safety related data rated load cycles 500000 Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes			max		12
EC/EN 60947-5-1 designation	Auxiliary contact char	acteristics			
Comparising current AC15 230V A 3 400V A 1.9 500V A 1.4	Thermal current Ith			Α	10
230V	IEC/EN 60947-5-1 de	esignation			A600 - Q600
A00V A 1.9 500V A 1.4	Operating current AC	15			
SOUV A 1.4			230V	Α	3
Operating current DC12			400V	Α	1.9
110V			500V	Α	1.4
Operating current DC13	Operating current DC	12			
24V A 2.9 48V A 1.4 60V A 1.1 125V A 0.3 220V A 0.1 600V A 0.6 600V			110V	Α	2.9
A8V A 1.4 60V A 1.1 125V A 0.3 220V A 0.1 600V A 0.6 600V	Operating current DC	13			
A8V A 1.4 60V A 1.1 125V A 0.3 220V A 0.1 600V A 0.6 600V			24V	Α	2.9
125V A 0.3 220V A 0.1 600V A 0.6			48V	Α	
220V A 0.1			60V	Α	1.1
Operations Cycles 20000000 Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes			125V	Α	0.3
Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes			220V	Α	0.1
Mechanical life cycles 20000000 Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes			600V	Α	0.6
Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	Operations				
Electrical life cycles 500000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	Mechanical life			cycles	20000000
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	Electrical life				500000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility yes	Safety related data				
rated load cycles 500000 mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility rated load cycles 500000 yes	•	l0d according to EN/ISO 13489-1			
mechanical load cycles 20000000 Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes		-	rated load	cycles	500000
Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes		me		-	
EMC compatibility yes	Mirror contats accord			-	
· · · · · · · · · · · · · · · · · · ·		•			



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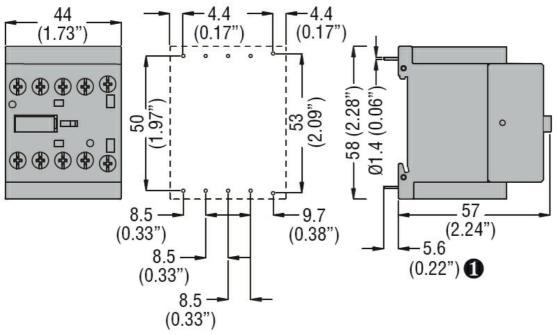
ENERGY AND AUTOMATION

DC rated control voltage DC operating voltage		60
	V	60
pick-up		
min	%Us	75
max	%Us	115
drop-out		
min	%Us	10
max	%Us	25
Average coil consumption ≤20°C		
in-rush	W	3.2
holding	W	3.2
Max cycles frequency		
	cycles/h	3600
Operating times		
Average time for Us control		
in AC		
Closing NO		4.0
min	ms	12
max Opening NO	ms	21
Opening NO min	ms	9
max	ms	18
Closing NC	1113	10
min	ms	17
max	ms	26
Opening NC		
min	ms	7
max	ms	17
in DC		
Closing NO		
min	ms	18
max	ms	25
Opening NO		
min	ms	2
Max Olasias NO	ms	3
Closing NC min	me	3
max	ms ms	3 5
Opening NC	1113	•
min	ms	11
max	ms	17
UL technical data		
Full-load current (FLA) for three-phase AC motor		
at 480V	Α	7.6
at 600V	Α	6.1
Yielded mechanical performance		
for single-phase AC motor		
110/120V	HP	0.5
	HP	1.5
for three-phase AC motor		
200/208V	HP	2
220/230V	HP	3
460/480V	HP	5
575/600V	HP	5

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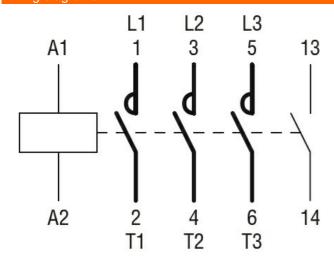
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General USE				
Cor	tactor			
		AC current	Α	20
Contact rating of auxiliary co	ntacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
Оре	erating temperature			
		min	°C	-50
		max	°C	+70
Stor	rage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
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