ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN



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		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
A	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	Ibin	9
Tightening torque for coil terminal	min	Nm	0.8



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	max	Nm	1
	min	lbin	9
	max	Ibin	9
	simultaneously 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
	tion according to IEC/EN 60529		IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	243
Auxiliary contact chara	acteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 des			A600 - Q600
Operating current AC1			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC1	12		
	12 110V	A A	2.9
Operating current DC1 Operating current DC1	12 110V	А	2.9
	12 110V 13 24V	A A	2.9
	12 110V 13 24V 48V	A A A	2.9 2.9 1.4
	12 110V 13 24V 48V 60V	A A A	2.9 2.9 1.4 1.1
	12 110V 13 24V 48V 60V 125V	A A A A	2.9 2.9 1.4 1.1 0.3
	110V 131 24V 48V 60V 125V 220V	A A A A A	2.9 2.9 1.4 1.1 0.3 0.1
Operating current DC1	12 110V 13 24V 48V 60V 125V	A A A A	2.9 2.9 1.4 1.1 0.3
Operating current DC1 Operations	110V 131 24V 48V 60V 125V 220V	A A A A A	2.9 1.4 1.1 0.3 0.1 0.6
Operations Operations Mechanical life	110V 131 24V 48V 60V 125V 220V	A A A A A Cycles	2.9 2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC1 Operations Mechanical life Electrical life	110V 131 24V 48V 60V 125V 220V	A A A A A	2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC1 Operations Mechanical life Electrical life Safety related data	110V 13 24V 48V 60V 125V 220V 600V	A A A A A Cycles	2.9 2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC1 Operations Mechanical life Electrical life Safety related data	110V 13 24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC1 Operations Mechanical life Electrical life Safety related data	110V 13 24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B16	110V 13 24V 48V 60V 125V 220V 600V 0d according to EN/ISO 13489-1 rated load mechanical load	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B16 Mirror contats according	110V 13 24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility	110V 13 24V 48V 60V 125V 220V 600V 0d according to EN/ISO 13489-1 rated load mechanical load	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordinate EMC compatibility DC coil operating	110V 13 24V 48V 60V 125V 220V 600V 0d according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1	A A A A A Cycles cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 Yes yes
Operating current DC1 Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility	110V 13 24V 48V 60V 125V 220V 600V 0d according to EN/ISO 13489-1 rated load mechanical load ng to IEC/EN 609474-4-1	A A A A A Cycles cycles	2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 200000000 Yes

pick-up



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			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	ion ≤20°C		2	147	0.0
			in-rush	W	3.2
May avalog fraguency			holding	W	3.2
Max cycles frequency Mechanical operation				cycles/h	3600
Operating times				Cycles/11	3000
Average time for Us co	ntrol				
Average time for 03 00	in AC				
	1117.0	Closing NO			
		5.65g 5	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC	0			
		Closing NO	•		40
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	παλ	1113	3
		Clooming 140	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	tor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical per					
	for single-phase AC m	notor			
			110/120V	HP	0.5
	· · · · · · · · · · · · · · · · · · ·	-1	230V	HP	1.5
	for three-phase AC me	υιοΓ	200/2001	ПD	2
			200/208V 220/230V	HP HP	2
			460/480V	HP	3 5
			575/600V	HP	5
General USE			373/0001	1 IF	<u> </u>
Conordi OOL	Contactor				
	20.1140.01		AC current	Α	20
			7.0 00110111		



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Contact rating of auxiliary contacts according to UL	A600 - Q600

Ambient conditions
Temperature

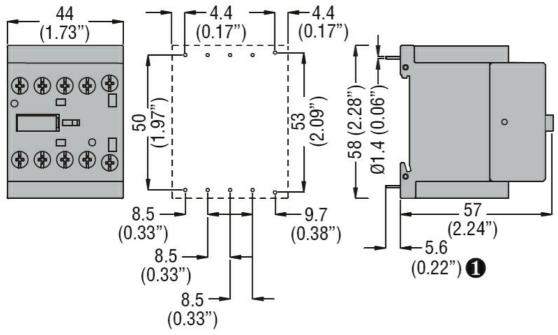
Operating temperature				
	min	°C	-50	
	max	°C	+70	
Storage temperature				
	min	°C	-60	
	max	°C	+80	

Max altitude max °C +80 m 3000

Resistance & Protection

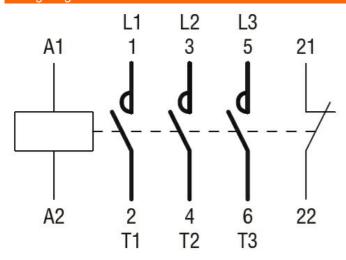
Pollution degree 3

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



11BGP0901D012

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IEC/EN 60947-1
IEC/EN 60947-4-1
UL 60947-1
UL 60947-4-1

CURus
EAC

ETIM classification

ETIM 8.0

Certificates

EC000066 -Power contactor, AC switching