IlbGP0910D012
electric
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NO
AUXILIARY CONTACT, REAR PCB SOLDER PIN



Product designation Product type designation			Power contactor BGP09
Contact characteristics			DOI 03
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		A	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)	А	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)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage			
	440V	А	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
	max	Ibin	9
Tightening torque for coil terminal			0.0
	min	Nm	0.8

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		max	Nm	1
		min	lbin	9
		max	lbin	9
Max number of wires	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			
	5	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	ction according to IEC/EN 60529	max		IP00
Mechanical features				11 00
Operating position		normal		Vortical plan
		allowable		Vertical plan ±30°
		allowable		
Fixing				Screw / DIN rai 35mm
			~	
Weight			g	240
Conductor section	·····•			
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			1.0
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	2.9
Operating current DC	13			
1 0		24V	А	2.9
		48V	A	1.4
		40V 60V	A	1.1
		125V	A	0.3
		220V	A	0.1
		600V	A	0.6
Operations		000 0		0.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
			Cycles	300000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		chanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				

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DC rated control voltage 12 V DC operating voltage pick-up %Us 75 min max %Us 115 drop-out %Us 10 min %Us 25 max 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 AC Closing NO ms 12 min 21 max ms **Opening NO** 9 min ms max ms 18 **Closing NC** min ms 17 26 max ms **Opening NC** 7 min ms max ms 17 in DC **Closing NO** min ms 18 25 max ms **Opening NO** min ms 2 3 max ms **Closing NC** 3 min ms 5 max ms **Opening NC** min ms 11 17 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 7.6 at 600V A 6.1 Yielded mechanical performance for single-phase AC motor HP 110/120V 0.5 230V HP 1.5 for three-phase AC motor 2 200/208V HP 220/230V HP 3 460/480V HP 5 575/600V HP 5

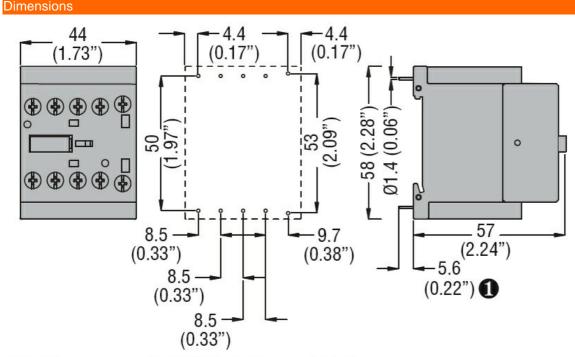


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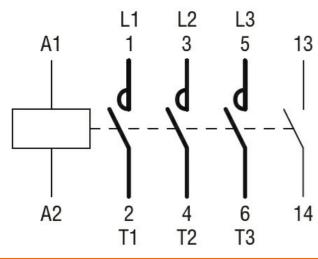
General USE

	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 & Protect	tion			
Pollution degree				3
Dimonoiono				



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		
		EC000066 -

ETIM 8.0

Power contactor, AC switching