



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)	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)		А	96
Protection fuse			
	gG (IEC)	A	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
The first state of the second state of the	max	Ibin	9
Tightening torque for coil terminal			0.0
	min	Nm	0.8



**11BGP0910A230** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

		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			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
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	A	2.9
Operating current DC	13			
		24V	А	2.9
		48V	А	1.4
		60V	А	1.1
		125V	А	0.3
		220V	А	0.1
		600V	А	0.6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		echanical load	cycles	2000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

Rated AC voltage at 5	60/60Hz			V	230
AC operating voltage					
	of 50/60Hz coil p				
		pick-up		0/11-	75
			min	%Us %Us	75 115
		drop-out	max	%05	115
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
<u></u>			max	%Us	55
AC average coil consi		oward at EOUT			
	of 50/60Hz coil p		in-rush	VA	30
			holding	VA VA	4
	of 50/60Hz coil p	owered at 60Hz	noiding	٧٨	7
	01 00/001 12 001 p		in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	ered at 60Hz	Ū		
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Mechanical operation Operating times					3600
Mechanical operation	ontrol				3600
Mechanical operation Operating times					3600
Mechanical operation Operating times	ontrol	Closing NO	min	cycles/h	
Mechanical operation Operating times	ontrol	Closing NO	min max	cycles/h ms	12
Mechanical operation Operating times	ontrol	Closing NO Opening NO	min max	cycles/h	
Mechanical operation Operating times	ontrol	-		cycles/h ms	12
Mechanical operation Operating times	ontrol	Opening NO	max	cycles/h ms ms	12 21
Mechanical operation Operating times	ontrol	-	max min max	cycles/h ms ms ms ms	12 21 9 18
Mechanical operation Operating times	ontrol	Opening NO	max min max min	cycles/h ms ms ms ms ms ms	12 21 9 18 17
Mechanical operation Operating times	ontrol	Opening NO Closing NC	max min max	cycles/h ms ms ms ms	12 21 9 18
Mechanical operation Operating times	ontrol	Opening NO	max min max min max	cycles/h ms ms ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	ontrol	Opening NO Closing NC	max min max min max min	cycles/h ms ms ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	max min max min max	cycles/h ms ms ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	ontrol	Opening NO Closing NC Opening NC	max min max min max min	cycles/h ms ms ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Mechanical operation Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2

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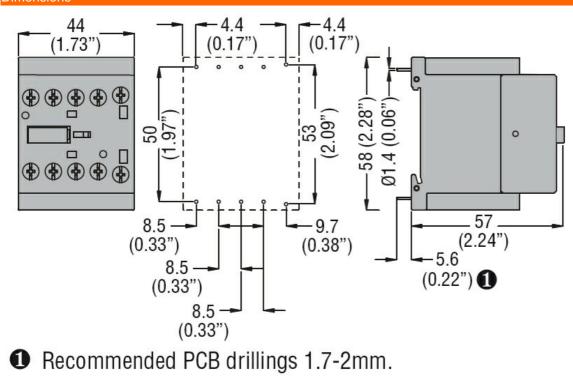


**11BGP0910A230** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

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



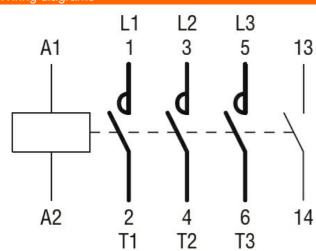
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ENERGY AND AUTOMATION

## Wiring diagrams



## 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