



Product designation			Power contactor
Product type designation Contact characteristics			BGP09
		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	<u> </u>
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ĸv	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	20
Operational current le		A	20
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)		7.	•
	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)	А	20
	aM (IEC)	А	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	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



11BGP0901A230 THREE-POLE

E CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ,	
230VAC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN	

		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Max number of wires	simultaneously connectable	тах	Nr.	2
Conductor section				2
	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 ra
				35mm
Weight			g	200
Conductor contion				
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara		max		
Auxiliary contact chara Thermal current Ith	acteristics	max	A	10
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de	acteristics	max	A	
Auxiliary contact chara Thermal current Ith	acteristics		_	10 A600 - Q600
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de	acteristics	230V	A	10 A600 - Q600 3
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de	acteristics	230V 400V	A A	10 A600 - Q600 3 1.9
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ²	acteristics signation 15	230V	A	10 A600 - Q600 3
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de	acteristics signation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V	A A	10 A600 - Q600 3 1.9
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ²	acteristics signation 15 12	230V 400V 500V 110V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V 500V 110V 24V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V 500V 110V 24V 48V	A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V	A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V	A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V	A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A 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 20000000
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operations Vechanical life Electrical life Safety related data	acteristics signation 15 12 13	230V 400V 500V 110V 24V 48V 60V 125V 220V	A A A A A 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 20000000
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operations Vechanical life Electrical life Safety related data	acteristics signation 15 12	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operations Vechanical life Electrical life Safety related data	acteristics signation 15 12 13 0d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operations Mechanical life Electrical life Safety related data Performance level B1	exteristics signation 15 12 13 0d according to EN/ISO 13489-1 mec	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Auxiliary contact chara Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operations Mechanical life Electrical life Safety related data Performance level B1	acteristics signation 15 12 13 0d according to EN/ISO 13489-1	230V 400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A A A Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

Rated AC voltage at	50/60Hz			V	230
AC operating voltage	Э				
	of 50/60Hz coil	powered at 50Hz			
		pick-up	_		
			min	%Us	75
			max	%Us	115
		drop-out	min	%Us	20
			max	%Us %Us	55
	of 50/60Hz coil	powered at 60Hz	Παλ	/003	55
	01 00/00112 001	pick-up			
		plot up	min	%Us	80
			max	%Us	115
		drop-out			-
		·	min	%Us	20
			max	%Us	55
AC average coil con	sumption at 20°C				
-		powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pov	wered at 60Hz			
			in-rush	VA	30
<u></u>			holding	VA	4
Dissipation at holdin			holding	W	0.95
Max cycles frequence	ÿ		holding	W	0.95
Max cycles frequend Mechanical operatio	ÿ		holding		0.95
Max cycles frequence Mechanical operatio Operating times	ry n		holding	W	0.95
Max cycles frequend Mechanical operatio	control		holding	W	0.95
Max cycles frequence Mechanical operatio Operating times	ry n	Closing NO	holding	W	0.95
Max cycles frequence Mechanical operatio Operating times	control	Closing NO		W cycles/h	0.95 3600
Max cycles frequence Mechanical operatio Operating times	control	Closing NO	min max	W cycles/h ms	0.95 3600 12
Max cycles frequence Mechanical operatio Operating times	control	Closing NO Opening NO	min	W cycles/h	0.95 3600
Max cycles frequence Mechanical operatio Operating times	control		min	W cycles/h ms	0.95 3600 12
Max cycles frequence Mechanical operatio Operating times	control	Opening NO	min max	W cycles/h ms ms	0.95 3600 12 21
Max cycles frequence Mechanical operatio Operating times	control		min max min max	W cycles/h ms ms ms	0.95 3600 12 21 9 18
Max cycles frequence Mechanical operatio Operating times	control	Opening NO	min max min max min	W cycles/h ms ms ms ms ms	0.95 3600 12 21 9 18 17
Max cycles frequence Mechanical operatio Operating times	control	Opening NO Closing NC	min max min max	W cycles/h ms ms ms ms	0.95 3600 12 21 9 18
Max cycles frequence Mechanical operatio Operating times	control	Opening NO	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequence Mechanical operatio Operating times	control	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC	min max min max min max	W cycles/h ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26
Max cycles frequence Mechanical operatio Operating times	control	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25
Max cycles frequence Mechanical operatio Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms ms ms ms	0.95 3600 12 21 9 18 17 26 7 17 17 18 25 2

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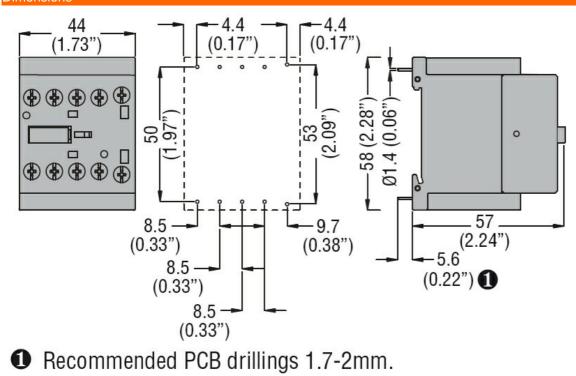


11BGP0901A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

	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 mechanic	al 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	А	20
Contact rating of a	auxiliary contacts according to UL			A600 - Q600
Ambient condition	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prot				

Pollution degree

Dimensions



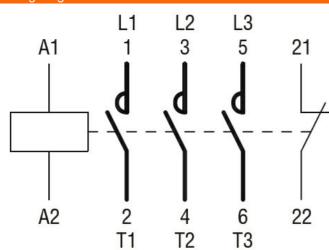
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11BGP0901A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT, REAR PCB SOLDER PIN

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