



Product designation			Power contactor
Product type designation Contact characteristics			BGP09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	500
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ΝV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Шал	A	20
Operational current le			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)			
	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)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage			
	440V	A	72
	500V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	0.81
Tightening torque for terminals		N I	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	9
Tightening torque for coil terminal	max	חוטו	9
Tightening torque for coil terminal	min	Nm	0.9
	min	Nm	0.8



11BGP0910D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

		max	Nm	1
		min	Ibin	9
		max	Ibin	9
	simultaneously connectable	max	Nr.	2
			INI.	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
Power terminal protec	tion according to IEC/EN 60529	max		IP00
Vechanical features				
Operating position				Manthe al al
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	240
Conductor section				
	AWG/kcmil conductor section			
		max		12
		111007		· -
Auxiliary contact chara	acteristics	max		
	acteristics	max	А	
Thermal current Ith			A	10
Thermal current Ith IEC/EN 60947-5-1 de	signation		A	
Thermal current lth IEC/EN 60947-5-1 de	signation			10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	signation	230V	A	10 A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	signation	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ²	signation 15	230V	A	10 A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ²	signation 15	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	signation 15 12	230V 400V	A A	10 A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	signation 15 12	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	signation 15 12	230V 400V 500V	A A A	10 A600 - Q600 3 1.9 1.4
Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	signation 15 12	230V 400V 500V 110V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	signation 15 12	230V 400V 500V 110V 24V 48V	A A A A	10 A600 - Q600 3 1.9 1.4 2.9 2.9 2.9 1.4
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ²	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operations Mechanical life	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operating current DC ² Deperations Mechanical life Electrical life	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	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
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	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	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
Thermal current Ith EC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	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 Cycles cycles	10 A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC ² Operating current DC ² Operating current DC ² Operating current DC ² Operations Mechanical life Electrical life Safety related data Performance level B1	signation 15 12 13 0d according to EN/ISO 13489-1 me	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 500000
	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 1.4 1.1 0.3 0.1 0.6 20000000 500000

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11BGP0910D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

DC rated control voltage V 110 DC operating voltage pick-up min %Us 75 investige min %Us 10 max %Us 10 Average coll consumption ≤20°C invush W 3.2 holding W 3.2 Max cycles frequency cycles frequency cycles frequency 3600 0 Operating times cycles frequency 3600 0 0 Average time for Us control in AC min ms 12 max ms 12 Opening NO min ms 12 max ms 13 Closing NC min ms 17 max ms 16 Closing NC min ms 17 max ms 17 in DC Closing NO min ms 17 max ms 16 Closing NO min ms 17 max ms 17 in DC Closing NO	DC roted control value				N/	110
pick-up min %Us 75 drop-out min %Us 10 max %Us 10 max %Us 10 max %Us 10 max %Us 10 Average coll consumption ≤20°C in-rush W 3.2 Max cycles frequency W 3.2 Max cycles frequency W 3.2 Average time for Us control in AC rmin ms 21 Opening NO min ms 21 max ms 21 Opening NO min ms 13 12 max ms 13 Closing NC min ms 17 max ms 16 DC Closing NO min ms 17 max ms 17 in DC Closing NO min ms 13 11 11 11 11 11 11 11 11 11 11		je			V	110
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Max ms 5 Opening NC min ms 11 max ms 17 UL technical data ms 17 Full-load current (FLA) for three-phase AC motor at 480V A 7.6 Yielded mechanical performance at 600V A 6.1 Yielded mechanical performance 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			Closing NC	<u>.</u>		
Opening NC min ms 11 max ms 17 UL technical data x x x Full-load current (FLA) for three-phase AC motor at 480V A 7.6 Yielded mechanical performance at 600V A 6.1 Yielded mechanical performance 110/120V HP 0.5 230V HP 1.5 110/120V HP 2 for three-phase AC motor 200/208V HP 2 220/230V HP 3 460/480V HP 5 5 3 3 3						
min ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 7.6 at 600V A 6.1 6.1 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 1.5 1.5 for three-phase AC motor 200/208V HP 2 220/230V HP 3 460/480V HP 5				max	ms	5
max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 7.6 at 600V A 6.1 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5 110 1.5 1.5 for three-phase AC motor 200/208V HP 2 220/230V HP 3 460/480V HP 5			Opening NC	<u>-</u>		
UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 7.6 at 480V A 7.6 at 600V A 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						
Full-load current (FLA) for three-phase AC motor at 480V A 7.6 at 600V A 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				max	ms	1/
at 480V A 7.6 at 600V A 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						
at 600V A 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	Full-load current (FLA)	tor three-phase AC me	otor		-	
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						
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				at 600V	A	6.1
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	Yielded mechanical pe					
230V HP 1.5 for three-phase AC motor 200/208V HP 2 220/230V HP 3 3 460/480V HP 5 5		tor single-phase AC	motor			
for three-phase AC motor 200/208V HP 2 220/230V HP 3 460/480V HP 5						
200/208V HP 2 220/230V HP 3 460/480V HP 5				230V	HP	1.5
220/230V HP 3 460/480V HP 5		for three-phase AC m	notor			
460/480V HP 5						
575/600V HP 5						
				575/600V	HP	5

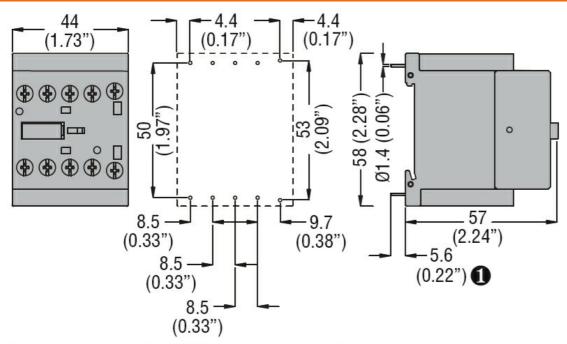
11BGP0910D110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



11BGP0910D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT, REAR PCB SOLDER PIN

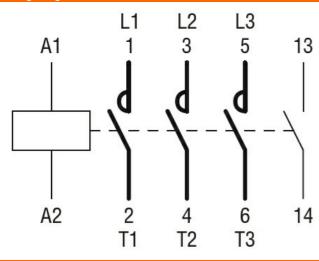
General USE

Contactor				
	AC o	current	А	20
Contact rating of auxiliary contacts accord	ing to UL			A600 - Q600
Ambient conditions				
Temperature				
Operating temper	ature			
		min	°C	-50
		max	°C	+70
Storage temperat	ure			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				



Recommended PCB drillings 1.7-2mm.





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		
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching