

Product designation			Power contactor
Product type designation			BGP09
Contact characteristics			
Number of poles		Nr.	4
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)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	A	4
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)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	А	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	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Max number of wires simultaneously connectable		Nr.	2
Conductor section			



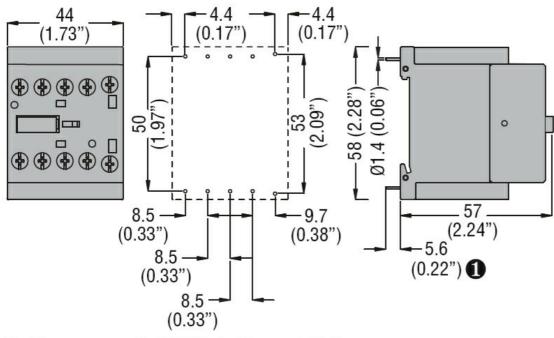
## **11BGP09T4D110** FOUR-POLE CONTACTOR, DC COIL, 110VDC, REAR PCB SOLDER PIN

	Max Elevible w/e lug conductor costion		12
	Flexible w/o lug conductor section mir	mm²	0.8
	niii max	-	0.8 2.5
	Flexible c/w lug conductor section		2.0
	mir	mm²	1.5
	max	•	2.5
	Flexible with insulated spade lug conductor section		_
	mir	mm²	1.5
	max	mm²	2.5
Power terminal protec	tion according to IEC/EN 60529		IP00
Mechanical features			
Operating position			
	norma		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	242
Conductor section			
	AWG/kcmil conductor section		
	max		12
Auxiliary contact chara	cteristics		
Thermal current Ith		A	10
IEC/EN 60947-5-1 des	signation		Q600
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	500000
Safety related data	0d according to EN/ISO 13489-1		
renomance level bit	rated load	cycles	500000
	mechanical load		20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	0y0l00	yes
EMC compatibility			yes
DC coil operating			,
DC rated control voltage	ge	V	110
DC operating voltage			
1 0 0	pick-up		
	mir	%Us	75
	max	%Us	115
	drop-out		
	mir		10
	max	%Us	25
Average coil consump			
	in-rush		3.2
	holding	W	3.2
Max cycles frequency		en se la se di	2000
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	in AC		
	Closing NO		
	mir	ms	12
	max		21



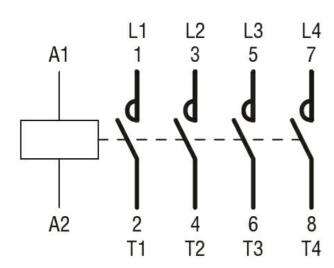
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC	max	1113	10
			min	ms	17
			max	ms	26
		Opening NC	max	mo	20
		oponing i to	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		g	min	ms	18
			max	ms	25
		Opening NO			
		1 0	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical per	rformance				
	for single-phase AC m	notor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	otor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				
			AC current	А	20
Ambient conditions					
Temperature					
	Operating temperature	e			
			min	°C	-50
			max	°C	+70
	Storage temperature				
			min	°C	-60
			max	°C	+80
Max altitude				m	3000
Resistance & Protectio	n				
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	
	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