

11BGF0910D110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC, 1NO AUXILIARY CONTACT, FASTON TERMINALS



Product designation Product type designation			Power contactor BGF09
Contact characteristics			20100
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
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)	Α	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
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	690V	kW	22
The current is in DCT with $L/R \le 1$ ms with T poles in series	≤24V	٨	12
	≤24 V 48 V	A A	12
	48V 75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201	7	
	≤24V	А	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	А	10
	220V	А	2

11BGF0910D110 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



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IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	48V 75V	A	2
	110V	A	1
			I
	220V	A	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	A	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			0,0
	≤24V	А	10
	48V	A	10
	48V 75V	A	
			6 5
	110V	A	
	220V	A	0,8
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)		Α	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	Ŵ	0.81
Tightening torque for terminals	,		
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9



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simultaneously connectable		Nr.	2
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
	min	mm²	0.75
	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		1.5
	max	mm²	2.5
ction according to IEC/EN 60529			IP20 when
			properly wired
			Vertical plan
	allowable		±30°
			Screw / DIN rai
			35mm
		g	210
AWG/kcmil conductor section			10
	max		12
acteristics		٨	40
		A	10
-			A600 - Q600
15	0001		0
			3
			1.9
	500V	A	1.4
12	44014		
	110V	A	2.9
13	e (1) (
	24V		2.9
	1011		1 /
	48V	A	1.4
	60V	А	1.1
	60V 125V	A A	1.1 0.3
	60V 125V 220V	A A A	1.1 0.3 0.1
	60V 125V	A A	1.1 0.3
	60V 125V 220V	A A A A	1.1 0.3 0.1 0.6
	60V 125V 220V	A A A A cycles	1.1 0.3 0.1 0.6 20000000
	60V 125V 220V	A A A A	1.1 0.3 0.1 0.6
	60V 125V 220V	A A A A cycles	1.1 0.3 0.1 0.6 20000000
10d according to EN/ISO 13489-1	60V 125V 220V 600V	A A A cycles cycles	1.1 0.3 0.1 0.6 20000000 500000
-	60V 125V 220V 600V rated load	A A A cycles cycles	1.1 0.3 0.1 0.6 20000000 500000 500000
med	60V 125V 220V 600V	A A A cycles cycles	1.1 0.3 0.1 0.6 20000000 500000
-	60V 125V 220V 600V rated load	A A A cycles cycles	1.1 0.3 0.1 0.6 20000000 500000 500000
med	60V 125V 220V 600V rated load	A A A cycles cycles	1.1 0.3 0.1 0.6 20000000 500000 500000 500000 20000000
med	60V 125V 220V 600V rated load	A A A cycles cycles	1.1 0.3 0.1 0.6 20000000 500000 500000 20000000 yes
		AWG/Kcmil max Flexible w/o lug conductor section min max Flexible c/w lug conductor section min Flexible with insulated spade lug conductor section min Flexible with insulated spade lug conductor section min ction according to IEC/EN 60529 normal AWG/kcmil conductor section max allowable max AWG/kcmil conductor section max acteristics 230V 400V 500V 12 110V 13 24V	AWG/Kcmil max Flexible w/o lug conductor section min mm ² max mm ² Flexible c/w lug conductor section min mm ² max mm ² Flexible with insulated spade lug conductor section min mm ² max mm ² ction according to IEC/EN 60529 ction according to IEC/EN 60529 AWG/kcmil conductor section max allowable g AWG/kcmil conductor section max acteristics A assignation 15 230V A 400V A 500V A 112 110V A 13

DC operating voltage



pick-up

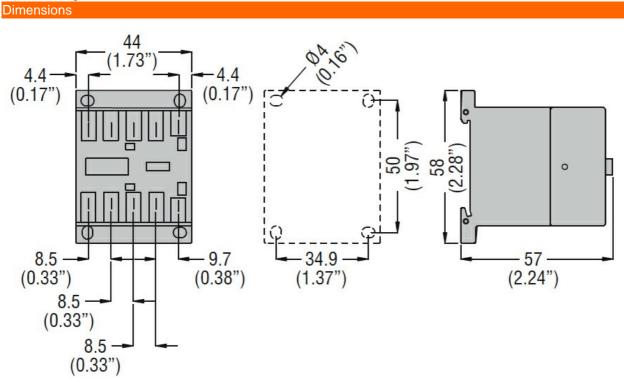
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	ріск-ир				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C			,	
i tronago son sonoamp			in-rush	W	3.2
			holding	Ŵ	3.2
Max cycles frequency			noiding	VV	3.2
				avalaa/h	2600
Mechanical operation Operating times				cycles/h	3000
Average time for Us co					
	in AC				
		Closing NO	_		
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
	1100	Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			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 A	AC motor			
	-		at 480V	А	7.6
			at 600V	А	6.1
Yielded mechanical pe	rformance				
	for single-phase	AC motor			
	.s. single plide		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor	230 V	111	1.0
	tor three-phase		200/2021	ЦБ	2
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				



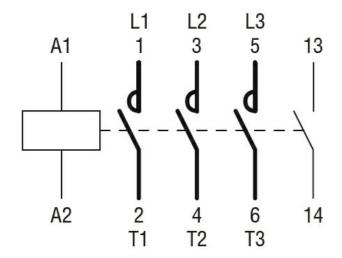
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		AC current	А	20
Short-circuit protect	ion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	xiliary contacts according 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 & Prote	ction			
Pollution degree				3



Wiring diagrams





Certifications and compliance

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	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching