



Product designation			Power contactor
Product type designation Contact characteristics			BGF09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ĸv	0
Operational nequency	min	Hz	25
	min	Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le		A	20
Operational current le	$A \subset 1 (< 10^{\circ} C)$	٨	20
	AC-1 (≤40°C) AC-1 (≤55°C)	A A	18
	AC-1 (≤55 C) 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
	230V 400V	kW	4
	400V 415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	0001		0
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001		
	≤24V	А	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	2201		
	≤24V	А	15
	48V	A	14
	48V 75V	A	9
	110V	A	8
	220V		
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	2200	A	
The max current le in DOT with $L/T \ge 1005$ with 5 poles II selles	≤24V	۸	16
		A	16 16
	48V 75V	A	16 10
	75V 110V	A	10 10
		A	10
	220V	Α	2



IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	A	10
	220V	A	2
IEC may aureant to in DC2 DC5 with L/P < 15mg with 1 pales in sorias	220 V	~	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			_
	≤24V	A	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	A	
			8
	75V	A	5
	110V	А	4
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	А	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			00
		۸	20
	gG (IEC)	A	20
	aM (IEC)	A	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
		11132	10
Power dissipation per pole (average value)	141-	14/	Λ
	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	max		-
	min	Nim	0.8
	min	Nm	
	max	Nm	1
	min	Ibin	9
	max	Ibin	9



11BGF0901D220 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC,

1NC AUXILIARY CONTACT, FASTON TERMINALS

	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	0.75
		min	mm²	0.75
	Flexible c/w lug conductor section	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			2.0
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	224
Conductor section			0	
	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	A	3
		400V	A	1.9
	10	500V	A	1.4
Operating current DC	12	110V	А	2.9
Operating current DC	13	1100	A	2.9
Operating current DC	13	24V	А	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
		600V	А	0.6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating			.,	
DC rated control volta	ige		V	220



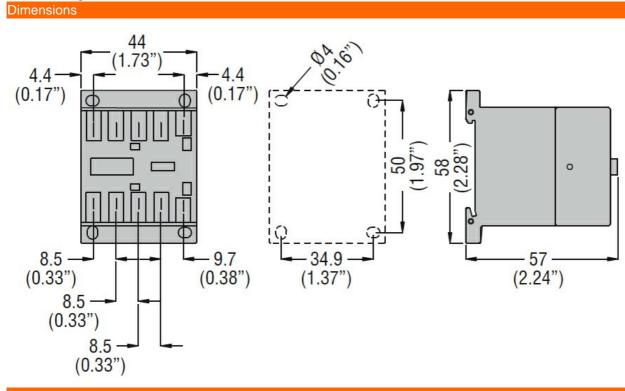
pick-up min %Us 75 %Us 115 max drop-out 10 %Us min max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC **Closing NO** 12 min ms 21 max ms **Opening NO** 9 min ms max 18 ms **Closing NC** 17 min ms ms 26 max **Opening NC** min ms 7 17 max ms in DC Closing NO 18 min ms max ms 25 **Opening NO** 2 min ms max ms 3 **Closing NC** min 3 ms 5 max ms **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 А 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 5 460/480V HP 5 575/600V HP General USE

Contactor

11BGF0901D220 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

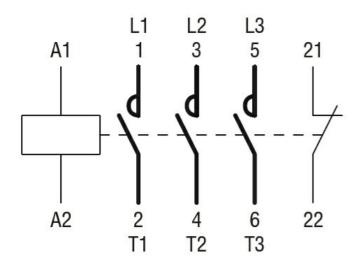


		AC current	A	20
Short-circuit protec	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	3			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	<u> </u>	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
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
FTIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching