



Product designation Product type designation			Power contactor BGF09
Contact characteristics			
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)	А	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
	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	Α	2



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	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	Α	2
Be that current is in DC3-DC5 with $L/R \le 15$ ms with 1 poiss in series			_
	≤24V	А	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	A	4
	220V	A	_
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	2201		0,0
	≤24V	А	10
	48V	A	10
	75V	А	6
	110V	А	5
	220V	Α	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)	()	A	92
Breaking capacity at voltage			
Dicaking capacity at voltage	44014	٨	70
	440V	A	72
	500V	A	72
	690V	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			
	min	Nm	0.8
		Nm	
	max		1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
	max		-



	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	0.75
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	nain	no no 2	1 E
		min	mm² mm²	1.5
	Elevible with insulated anode lug conductor postion	max	11111-	2.5
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
		Пал		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				property wrea
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	179
Conductor section			0	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	А	1.4
		60V	A	1.1
		125V	А	0.3
		220V	A	0.1
		600V	А	0.6
Operations				00000000
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			500000
		rated load	cycles	500000
Minute 21 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		nechanical load	cycles	2000000
wurrer contate accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
EMC compatibility AC coil operating Rated AC voltage at 6			V	yes 220

AC operating voltage

# 11BGF0901A22060



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

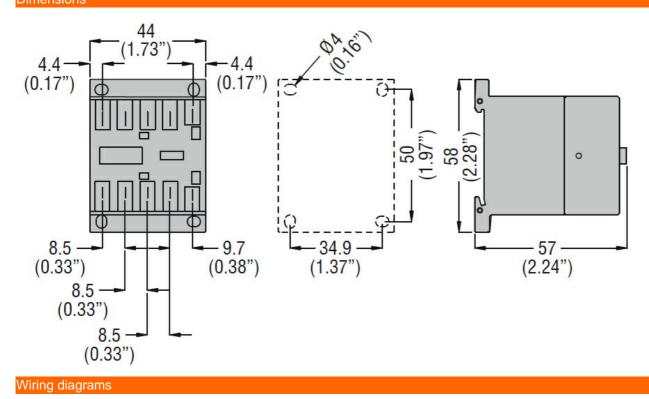
	of 60Hz coil power				
		pick-up		0/110	75
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	0/110	20
			min	%Us	20
	umption at 20°C		max	%Us	55
AC average coil cons	•	wared at COUL			
	of 50/60Hz coil pov	wered at 50Hz	in much	\/A	20
			in-rush	VA	30
		warrad at COLLE	holding	VA	4
	of 50/60Hz coil pov	wered at 60Hz	in much	١/٨	25
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ed at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency				a) (a) = - //	2000
lechanical operation				cycles/h	3600
Operating times					
verage time for Us c					
	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				
	mbo	<b>a a</b>			
		Closing NO			
		Closing NO	min	ms	18
		-	min max	ms ms	18 25
		Closing NO Opening NO	max	ms	25
		-	max min	ms ms	25 2
		Opening NO	max	ms	25
		-	max min max	ms ms ms	25 2 3
		Opening NO	max min max min	ms ms ms ms	25 2 3 3
		Opening NO Closing NC	max min max	ms ms ms	25 2 3
		Opening NO	max min max min max	ms ms ms ms ms	25 2 3 3 5
		Opening NO Closing NC	max min max min	ms ms ms ms	25 2 3 3 5 11
		Opening NO Closing NC	max min max min max	ms ms ms ms ms	25 2 3 3 5
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5 11
	) for three-phase AC	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5 11
<mark>JL technical data</mark> Full-load current (FLA		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5 11

for single-phase AC motor



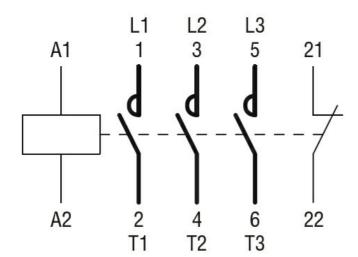
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	А	20
Short-circuit protect	ion fuse, 600V			
	High fault			
	5	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	xiliary contacts according to UL	<u>v</u>		A600 - Q600
Ambient conditions	, , , , , , , , , , , , , , , , , , , ,			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature	-		
	J	min	°C	-60
		max	°Č	+80
Max altitude			m	3000
Resistance & Protect	ction			
Pollution degree				3
				-

Dimensions



# 11BGF0901A22060 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





#### Certifications and compliance

Compliance
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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