



Product designation			Power contactor
Product type designation			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		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)	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	A	10
	75V	A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			. –
	≤24V	A	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		•	10
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10



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	220V	А	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	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	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	8
	48V	А	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	2201		
	≤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	2200	A	0,0
TEC max current le in DC3-DC3 with L/R 2 T3ms with 4 poles in series	≤24V	۸	10
		A	
	48V	A	10
	75V	A	6
	110V	A	5
	220V	<u>A</u>	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse		_	
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		А	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)			
· · · · · ·	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal	тах	1011	~
	min	Nm	0.8
	max	Nm Ibin	1
	min	Ibin	9



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		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Flouible w/o lug conductor costion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		min max	mm²	2.5
	Flexible c/w lug conductor section	IIIdX	111111	2.0
	Flexible C/W lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max	111111	2.5
	Flexible with insulated space lug conductor section	min	mm²	1.5
				2.5
		max	mm²	
Power terminal protect	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
operating position		n o ros o l		Vortical plan
		normal allowable		Vertical plan ±30°
		allowable		±30 ^e Screw / DIN ra
Fixing				35mm
Weight			a	180
Conductor section			g	100
Jonductor Section				
	AWG/kcmil conductor section			10
	e ete vieties	max		12
Auxiliary contact chara			٨	10
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15		_	
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13	110V	A	2.9
Operating current DC	13	110V 24V	A	2.9
Operating current DC	13			
Operating current DC	13	24V 48V 60V	А	2.9
Operating current DC	13	24V 48V 60V 125V	A A	2.9 1.4 1.1 0.3
Operating current DC	13	24V 48V 60V	A A A	2.9 1.4 1.1
Operating current DC	13	24V 48V 60V 125V	A A A A	2.9 1.4 1.1 0.3
Operating current DC	13	24V 48V 60V 125V 220V	A A A A	2.9 1.4 1.1 0.3 0.1
	13	24V 48V 60V 125V 220V	A A A A	2.9 1.4 1.1 0.3 0.1
Operations Mechanical life	13	24V 48V 60V 125V 220V	A A A A A	2.9 1.4 1.1 0.3 0.1 0.6
Operations	13	24V 48V 60V 125V 220V	A A A A A Cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operations Mechanical life Electrical life Safety related data	13 10d according to EN/ISO 13489-1	24V 48V 60V 125V 220V	A A A A A Cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 125V 220V	A A A A A Cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operations Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 500000 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	0d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 500000 20000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 20000000



10 11 11					
AC operating voltage					
	of 50/60Hz coil pow	vered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pow	vered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu					
	of 50/60Hz coil pow	vered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	vered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powere	ed at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				/	2600
Mechanical operation				cycles/h	3600
Operating times				cycles/n	3600
Operating times				cycles/n	3600
Operating times	ontrol in AC			cycles/n	3600
Operating times		Closing NO			
Operating times		Closing NO	min	ms	12
Operating times		-			
Operating times		Closing NO Opening NO	min max	ms ms	12 21
Operating times		-	min max min	ms ms ms	12 21 9
Operating times		Opening NO	min max	ms ms	12 21
Operating times		-	min max min max	ms ms ms ms	12 21 9 18
Operating times		Opening NO	min max min max min	ms ms ms ms ms	12 21 9 18 17
Operating times		Opening NO Closing NC	min max min max	ms ms ms ms	12 21 9 18
Operating times		Opening NO	min max min max min max	ms ms ms ms ms	12 21 9 18 17 26
Operating times		Opening NO Closing NC	min max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC	Opening NO Closing NC	min max min max min max	ms ms ms ms ms	12 21 9 18 17 26
Operating times		Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25 2 3
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3 3
Operating times Average time for Us c	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25 2 3

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Opening NC



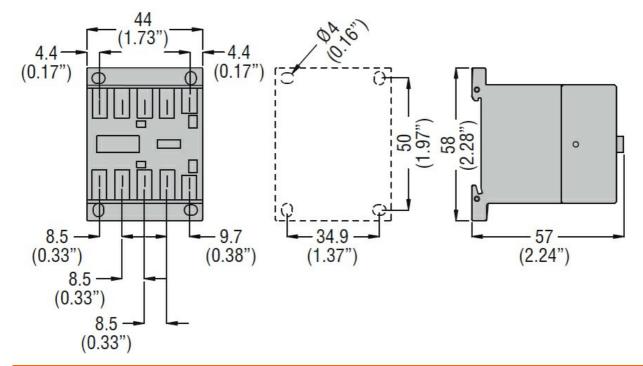
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		min	ms	11
		max	ms	17
UL technical data				
Full-load current (F	EA) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	Α	6.1
Yielded mechanica	al performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	А	20
Short-circuit protect	ction 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	A	30
Contact rating of a	uxiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature	Пах	<u> </u>	
		min	°C	-60
		max	°C	+80
Max altitude		IIIdA		3000
Resistance & Prote	ection		m	3000
Pollution degree				3
Dimensions				J
Dimensions				

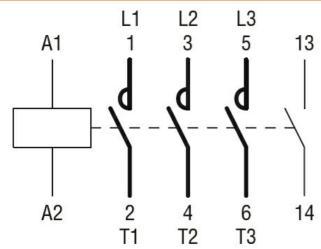
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 110VAC, 1NO AUXILIARY CONTACT, FASTON TERMINALS



Wiring diagrams



Certifications and compliance

Continuation of and c	le la	
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