



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			•
operational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdA	A	20
Operational current le		A	20
Operational current le	$A = 1 (< 10^{\circ} = 1)$	۸	20
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	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)			
	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	A	12
	48V	А	10
	75V	A	4
	110V	А	3
	220V	A	-
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	А	_
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
	1100	A	10



11BGF0910A400 THREE-POLE CO

DNTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ,
400VAC, 1NO AUXILIARY CONTACT, FASTON TERMINALS

	0001		<u>.</u>	
	220V	A	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		2	
	2200	A	Ζ	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series				
	≤24V	Α	7	
	48V	Α	6	
	75V	А	2	
	110V	А	1	
	220V	A	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	2201			
The max current is in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series	-0.0.4			
	≤24V	A	8	
	48V	А	8	
	75V	А	5	
	110V	А	4	
	220V	А	_	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	2201			
	-0111	٨	10	
	≤24V	A	10	
	48V	A	10	
	75V	Α	6	
	110V	Α	5	
	220V	А	0,8	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			,	
	≤24V	А	10	
	48V			
		A	10	
	75V	A	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)	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	
		11122	10	
Power dissipation per pole (average value)	- <i></i>			
	lth	W	4	
	AC-3	W	0.81	
Tightening torque for terminals				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	9	
	max	lbin	9	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	9	
			-	



11BGF0910A400 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT, FASTON TERMINALS

wax number of wires	alan di ana ang ang ang ang ang ang ang ang ang	max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			40
		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			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
-				properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
i ixiiig				35mm
Weight			g	176
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	15			
Operating current AC	15	230V	А	3
Operating current AC	15	230V 400V	A A	3 1.9
Operating current AC	15	400V	А	1.9
Operating current AC		400V 500V	A A	1.9 1.4
Operating current DC	12	400V	А	1.9
	12	400V 500V 110V	A A A	1.9 1.4 2.9
Operating current DC	12	400V 500V 110V 24V	A A A	1.9 1.4 2.9 2.9
Operating current DC	12	400V 500V 110V 24V 48V	A A A A A	1.9 1.4 2.9 2.9 1.4
Operating current DC	12	400V 500V 110V 24V 48V 60V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.1
Operating current DC	12	400V 500V 110V 24V 48V 60V 125V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.1 0.3
Operating current DC	12	400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1
Operating current DC	12	400V 500V 110V 24V 48V 60V 125V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.1 0.3
Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC Operating current DC Operations Mechanical life	12	400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life	12	400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12 13	400V 500V 110V 24V 48V 60V 125V 220V	A A A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12	400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 10d according to EN/ISO 13489-1 met	400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	12 13 10d according to EN/ISO 13489-1 met	400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	12 13 10d according to EN/ISO 13489-1 met	400V 500V 110V 24V 48V 60V 125V 220V 600V	A A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 500000 500000 20000000 yes

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AC operating voltage	Э				
	of 50/60Hz coil pov	vered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pov	worod at 60Hz	Παλ	/003	00
		pick-up		0/11-	0.0
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil con	sumption at 20°C				
·	of 50/60Hz coil pov	vered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	vered at 60Hz			-
			in-rush	VA	25
				VA VA	3
			holding	VA	J
	of 60Hz coil power			174	20
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	-			W	0.95
Max cycles frequenc	y				
-	y			W cycles/h	
Max cycles frequenc	y				
Max cycles frequence Mechanical operation Operating times	y 1				
Max cycles frequence Mechanical operation Operating times	y n control				
Max cycles frequence Mechanical operation Operating times	y 1	Closing NO			
Max cycles frequence Mechanical operation Operating times	y n control	Closing NO	min	cycles/h	3600
Max cycles frequence Mechanical operation Operating times	y n control	Closing NO	min	cycles/h ms	3600
Max cycles frequence Mechanical operation Operating times	y n control	-	min max	cycles/h	3600
Max cycles frequenc Mechanical operation Operating times	y n control	Closing NO Opening NO	max	cycles/h ms ms	3600 12 21
Max cycles frequence Mechanical operation Operating times	y n control	-	max min	cycles/h ms ms ms	3600 12 21 9
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO	max	cycles/h ms ms	3600 12 21
Max cycles frequence Mechanical operation Operating times	y n control	-	max min max	cycles/h ms ms ms ms	3600 12 21 9 18
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO	max min max min	cycles/h ms ms ms ms	3600 12 21 9 18 17
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO Closing NC	max min max	cycles/h ms ms ms ms	3600 12 21 9 18
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO	max min max min	cycles/h ms ms ms ms	3600 12 21 9 18 17
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO Closing NC	max min max min	cycles/h ms ms ms ms	3600 12 21 9 18 17
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO Closing NC	max min max min max	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC	max min max min max min	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequence Mechanical operation Operating times	y n control	Opening NO Closing NC Opening NC	max min max min max min	cycles/h ms ms ms ms ms ms	3600 12 21 9 18 17 26 7
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2
Max cycles frequence Mechanical operation	y control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2
Max cycles frequence Mechanical operation Operating times	y control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	cycles/h ms ms ms ms ms ms ms ms ms ms ms ms	3600 12 21 9 18 17 26 7 17 18 25 2 3

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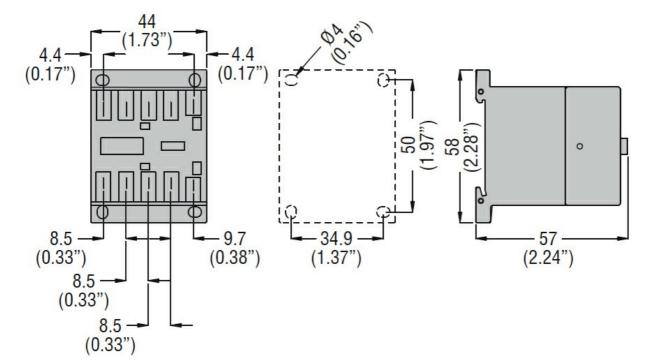
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		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FL	A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	Α	6.1
Yielded mechanical	performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	А	20
Short-circuit protecti	on fuse, 600V			-
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
	Standard fault	1 400 01400		0
		Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of au	kiliary contacts according to UL	T use failing	~	A600 - Q600
Ambient conditions				A000 - Q000
Temperature	Operating tomperature			
	Operating temperature		° ^	FO
		min	°C °C	-50
	<u></u>	max	°C	+70
	Storage temperature		° ^	60
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	ction			
Pollution degree				3
Dimensions				

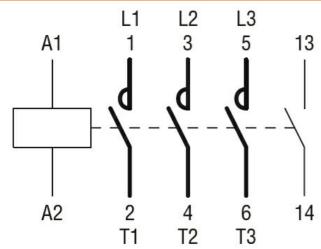
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 400VAC, 1NO AUXILIARY CONTACT, FASTON TERMINALS



Wiring diagrams



Certifications and compliance

Continoution of and con		
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