



Product designation Power contactor Product type designation BGF09

Product type designation			BGF09
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	
IEC Conventional free air thermal current Ith		Α	
Operational current le		V 690 kV 6 min Hz 25 max Hz 400 A 20 C-1 (≤40°C) A 20 C-1 (≤55°C) A 18 C-1 (≤70°C) A 15 40V ≤55°C) A 9	
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)		
	AC-1 (≤70°C)		
	AC-3 (≤440V ≤55°C)		
	AC-4 (400V)		
Rated operational power AC-1 (T≤40°C)	· /		
	230V	kW	8
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	12
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	- -		
	≤24V	Α	15
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	- -		
	≤24V	Α	16
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		
TEO MAX CANONCIO III DOT WILL E/IX = TING WILL + POICS III SCHES	<24/	Δ	16
	220V	A	2



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IEC max current le in [DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	·	≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	A	1
		220V	A	_
IEC may current le in [DC2 DC5 with L/B < 15mg with 2 notes in series	220 V		_
iec max current le in t	DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.4V		
		≤24V	Α	8
		48V	Α	8
		75V	Α	5
		110V	Α	4
		220V	Α	_
IEC max current le in [DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	·	≤24V	Α	10
		48V	Α	10
		75V	A	6
		110V	A	5
IFO	200 D05 with 1/D < 45 x 2 1/4 4 2 2 2 2	220V	A	0,8
ı⊨C max current le in [DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse				
1 Totodion Tabo		gG (IEC)	Α	20
Malian and (DMO	.1	aM (IEC)	A	10
Making capacity (RMS	,		Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Resistance per pole (a	verage value)		mΩ	10
Power dissipation per				
	(- · · · · · · · · · · · · · · · ·	Ith	W	4
		AC-3	W	0.81
Tightening torque for to	arminale		V V	0.01
riginiennig torque tor te	anninals	! -	NJ	0.0
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
Max number of wires of	imultaneously connectable	Пих	Nr.	2
	minutaneously connectable		INI.	
Conductor section	AMAC (IZ T			
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75





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		mov	mm²	2.5
	Flexible c/w lug conductor section	max	mm²	2.5
	r lexible c/w lug corrudctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor			
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when
	1011 4000141119 to 120/214 00020			properly wired
Mechanical features				
Operating position				Mantiagladan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	176
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data	0d according to FN/ICO 42400 4			
Performance level B II	0d according to EN/ISO 13489-1	rated load	ovoloo	500000
		mechanical load	cycles cycles	2000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	THEOHAITICAL IOAA	Cycles	yes
EMC compatibility	19 10 12 0/211 000 11 1 1 1			yes
AC coil operating				you
Rated AC voltage at 5	0/60Hz		V	400
AC operating voltage				
, ,	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out		0.44.7	0.0
		min	%Us	20
	of EO/COLLE poil powered at COLLE	max	%Us	55
	of 50/60Hz coil powered at 60Hz pick-up			
	pick-up	min	%Us	80
		max	%Us	115
	drop-out	ax		- -
	-1	min	%Us	20
		max	%Us	55
AC average coil consu	ımption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			0.5
		in-rush	VA	25





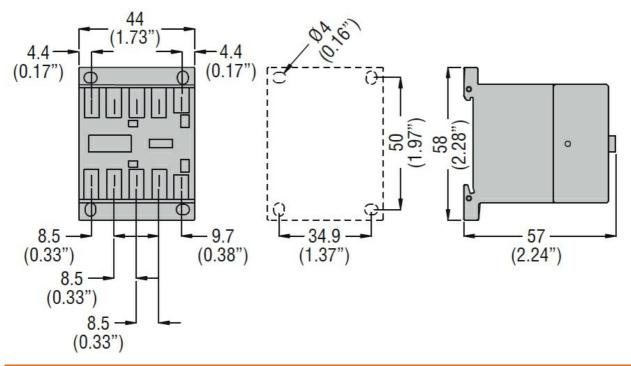
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			holding	VA	3
	of 60Hz coil powered at 60H	lz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding :	≤20°C 50Hz		<u> </u>	W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
	Clos	sing NO			
			min	ms	12
			max	ms	21
	Ope	ning NO			
			min	ms	9
			max	ms	18
	Clos	sing NC			
			min	ms	17
			max	ms	26
	Ope	ning NC			
			min	ms	7
			max	ms	17
	in DC				
	Clos	sing NO			
			min	ms	18
			max	ms	25
	Ope	ning NO			
			min	ms	2
			max	ms	3
	Clos	sing NC			
			min	ms	3
			max	ms	5
	Ope	ning NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC motor				
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	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	Α	20
Short-circuit protection	fuse, 600V				
	High fault				
			Short circuit current	kA	100



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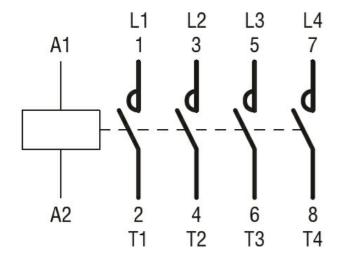
		Fuse rating	Α	30	
		Fuse class		J	
	Standard fault				
		Short circuit current	kA	5	
		Fuse rating	Α	30	
Ambient conditions					
Temperature					
	Operating temperature				
		min	°C	-50	
		max	°C	+70	
	Storage temperature				
		min	°C	-60	
		max	°C	+80	
Max altitude			m	3000	
Resistance & Protec	tion				
Pollution degree				3	
Dimensions					



Wiring diagrams



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Certifications and 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