



Product designation Power contactor Product type designation BGF09

Contact characteristics			
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	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	A	9
	•	A	4
Poted energtional newer AC 1 (T<40°C)	AC-4 (400V)	Α	4
Rated operational power AC-1 (T≤40°C)	0001	1.///	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			
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
120 max suits in 1001 with 12/1 = 11110 with 0 poics in selles	≤24V	Α	16
	48V		16
		A	
	75V	A	10
	110V	A	10
150	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		_	
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2



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IEC max current le in E	DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	_ 1
		220V	A	- -
IFO	200 DOE with 1/D < 45 with 0 1 in ni	220 V		<u>-</u>
IEC max current le in L	DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
		≤24V	Α	8
		48V	Α	8
		75V	Α	5
		110V	Α	4
		220V	Α	_
IFC may current le in F	DC3-DC5 with L/R ≤ 15ms with 3 poles in series		- , ,	
ILO IIIAX CUITEIILIE III L	DC3-DC3 with L/IX = 13ms with 3 poles in series	2041 /	^	40
		≤24V	Α	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
IEC max current le in Γ	DC3-DC5 with L/R ≤ 15ms with 4 poles in series			,
ILO MAX GAMONI IO III L	700 Boo with E/TC = Tome with 4 poles in somes	≤24V	۸	10
			A	10
		48V	Α	10
		75V	Α	6
		110V	Α	5
		220V	Α	0,8
Short-time allowable co	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse				
1 TOLCOLIOTI TUSC		aC (IEC)	۸	20
		gG (IEC)	A	
		aM (IEC)	Α	10
Making capacity (RMS	value)		Α	92
Breaking capacity at vo	oltage			
		440V	Α	72
		500V	Α	72
		690V	Α	72
Posistanos per pela (o	verage value)	030 V		
Resistance per pole (a			mΩ	10
Power dissipation per p	pole (average value)			
		Ith	W	4
		AC-3	W	0.81
Tightening torque for te	erminals			
5 5 12 22 22		min	Nm	0.8
			Nm	
		max		1
		min	lbin	9
		max	lbin	9
Tightening torque for co	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
			lbin	9
Max must an af 1 1 1 1	institute a constitute and a constitute	max		
	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	111000		
	I IOAIDIC W/O ING COMMUNICION SECTION	min	mm²	0.75
		min	mm²	0.75





FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 110VAC, FASTON TERMINALS

		may	mm²	2.5
	Flexible c/w lug conductor section	max	111111	2.0
	riembie ern lag een aacter eeenen	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor	or section		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property whea
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	cteristics		^	10
Thermal current lth	Signation		Α	10 A600
IEC/EN 60947-5-1 des Operations	signation			A000
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1			
		rated load	cycles	500000
Mirror contato consulis	ICC/CN C00474 4 4	mechanical load	cycles	20000000
EMC compatibility	ng to IEC/EN 609474-4-1			yes
AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11-	75
		min	%Us %Us	75 115
	drop-out	max	7005	115
	3.0p 00t	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0	
		min	%Us	80
	drop-out	max	%Us	115
	arop-out	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
	-t 50/00H	holding	VA	4
	of 50/60Hz coil powered at 60Hz	in-rush	VA	25
		III-IUSN	VA	۷۵



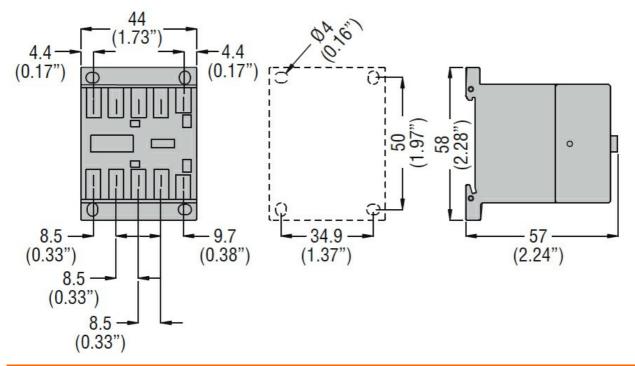


FOUR-POLE CONTACTOR, AC COIL 50/60HZ, 110VAC, FASTON TERMINALS

			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

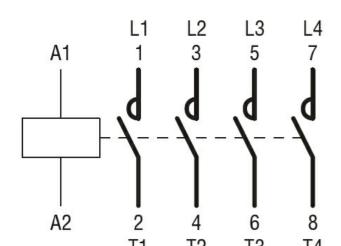


		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protect	etion et in the state of the st			
Pollution degree				3
Dimensions				



Wiring diagrams

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Certificat	ione and	comr	MIGNES
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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