

	9	
BGF0031		l de la
	0 m	BGF0031

Product designation			Power contactor
Product type designation Contact characteristics			BGF09
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ιτν	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4
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	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	-0.0.1	۸	10
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
$\frac{1}{100}$	220V	A	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	Α	2
	110V	Α	1
	220V	А	-
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	A	0,8
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		-	7 -
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse		7.	
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage		7	52
Breaking supusity at voltage	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	030 V	mΩ	10
Power dissipation per pole (average value)		11122	10
rower dissipation per pole (average value)	lth	W	4
Tightoning torque for terminele	AC-3	W	0.81
Tightening torque for terminals		Nime	0 0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	9
Tightoning toyour for coll towning!	max	Ibin	9
Tightening torque for coil terminal		N I .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
		Nr.	2
•			
Conductor section			
•			
Conductor section AWG/Kcmil	max		12
Conductor section	max		12
	max min	mm² mm²	12 0.75



	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
			IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	210
Conductor section			
	AWG/kcmil conductor section		
	max		12
Auxiliary contact chara			
Thermal current Ith		А	10
IEC/EN 60947-5-1 des	signation	~~~~	Q600
Operations			0000
Mechanical life		cycles	20000000
Electrical life			500000
Safety related data		cycles	500000
	d according to EN/ISO 12490 1		
Performance level Bit	0d according to EN/ISO 13489-1		500000
	rated load	cycles	500000
N.4'	mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1		yes
EMC compatibility			yes
DC coil operating		., <i>,</i>	1.0
DC rated control voltage	je	V	12
DC operating voltage			
	pick-up		
	min	%Us	75
	max	%Us	115
	drop-out		
	min	%Us	10
	max	%Us	25
Average coil consump			
	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us co	ontrol		
	in AC		
	Closing NO		
	min	ms	12
	max	ms	21
	Opening NO	-	
	min	ms	9
	max	ms	18
	Closing NC		. •

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11BGF09T4D012 FOUR-POLE CONTACTOR, DC COIL, 12VDC, FASTON TERMINALS

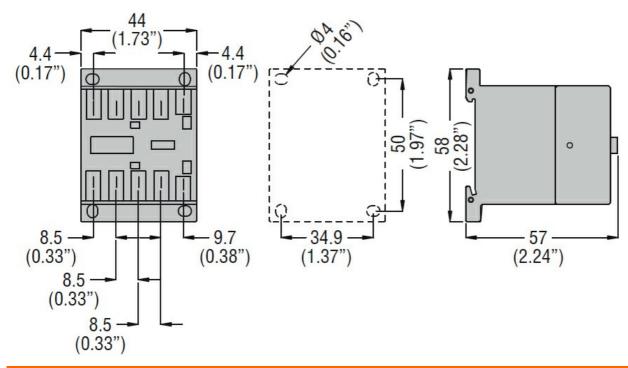
ENERGY AND AUTOMATION					
			min	m 0	17
			min	ms	
		Opening NC	max	ms	26
		Opening NC			7
			min	ms	7
	in DO		max	ms	17
	in DC				
		Closing NO			4.0
			min	ms	18
			max	ms	25
		Opening NO			•
			min	ms	2
		aa	max	ms	3
		Closing NC			_
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FL/	A) for three-phase A	.C motor			
			at 480V	А	7.6
			at 600V	Α	6.1
Yielded mechanical p	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				
	Contactor		AC current	А	20
Short-circuit protection	on fuse 600V			,,	
enert on our protoott	High fault				
	riigiriault		Short circuit current	kA	100
				N A	100

Fuse rating А 30 Fuse class J Standard fault Short circuit current kΑ 5 Fuse rating А 30 Ambient conditions Temperature Operating temperature °C -50 min °C max +70 0

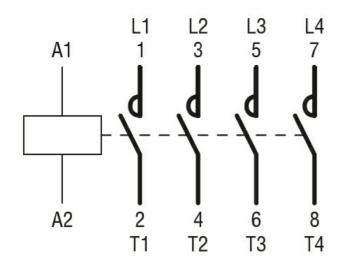
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

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Wiring diagrams



Certifications and compliance

	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		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching