

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NO AUXILIARY CONTACT, FASTON TERMINALS **ENERGY AND AUTOMATION**



Product designation Product type designation			Power contactor 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)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	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
150	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40 AV /	•	4.0
	≤24V	A	12
	48V	A	10
	75V	A	4
	110V 220V	A	3
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	A	_
TEC max current le in DCT with L/R \(\simes \) mis with 2 poles in series	≤24V	۸	15
	≤24 V 48 V	A A	15 14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	77	
120 max surrout to in 201 with 2/1 = 1110 with 6 polos in selles	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
	220 V		



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·			
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
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
'	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V		
IFO was a summer to be DOO DOO with 1/D < 45 as with 0 and a in a spin-	220 V	Α	_
IEC max current le in 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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	A	5
	220V	A	0,8
IFC may current to in DC2 DC5 with L/D < 15mg with 4 poles in parise	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.4V	Δ.	4.0
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	, ,	Α	92
Breaking capacity at voltage			
Distanting supusity at rollage	440V	Α	72
	500V	A	72
	690V	A	72 72
Posistance per pole (everage value)	090 V		
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
	min max	Nm Nm	0.8 1
			1
	max min	Nm Ibin	1 9
Tightening torque for coil terminal	max	Nm	1
Tightening torque for coil terminal	max min max	Nm Ibin Ibin	1 9 9
Tightening torque for coil terminal	max min max min	Nm Ibin Ibin	1 9 9 0.8
Tightening torque for coil terminal	max min max min max	Nm Ibin Ibin Nm Nm	1 9 9 0.8 1
Tightening torque for coil terminal	max min max min	Nm Ibin Ibin	1 9 9 0.8



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Max number of wires sin	nultaneously connectable		Nr.	2
Conductor section	nutraneously connectable		INI.	
	AWG/Kcmil			
		max		12
•	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section		2	4.5
		min max	mm² mm²	1.5 2.5
	Flexible with insulated spade lug conductor section		111111	2.5
	r lexible with indulated space rag deflactor section	min	mm²	1.5
		max	mm²	2.5
Power terminal protection	on according to IEC/EN 60529			IP20 when
•	on according to IEO/EIV 00323			properly wired
Mechanical features				
Operating position		normal		Vertical plan
		allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	211
Conductor section				
	AWG/kcmil conductor section			
A		max		12
Auxiliary contact charact Thermal current Ith	ETISTICS		Α	10
IEC/EN 60947-5-1 desiç	gnation			A600 - Q600
Operating current AC15	•			7.000 4000
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC12				
0 1 1000		110V	A	2.9
Operating current DC13		24)/	۸	2.0
		24V 48V	A A	2.9 1.4
		60V	A	1.1
		125V	A	0.3
		220V	Α	0.1
		600V	Α	0.6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data	1 according to EN/ISO 13/490 1			
r enomiance level b 100	according to EN/ISO 13489-1	rated load	cycles	500000
	n	nechanical load	cycles	2000000
Mirror contats according			5,0.00	yes
EMC compatibility				yes
DC coil operating				
DC rated control voltage	}		V	24
DC operating voltage				



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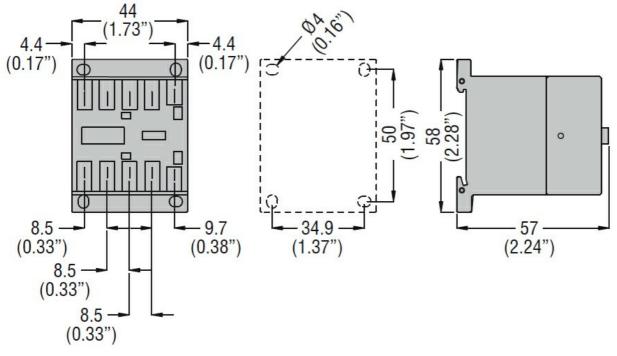
ENERGY AND ACTOMATION					
	mials				
	pick-up		i	0/116	75
			min	%Us	75
			max	%Us	115
	drop-out		_		
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
J	in AC				
		Closing NO			
		2.33.1.3	min	ms	12
			max	ms	21
		Opening NO	IIIdA	1113	- 1
		Opening NO	min	me	9
				ms ms	18
		Clasina NC	max	ms	10
		Closing NC	•		47
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
		Č	min	ms	3
			max	ms	5
		Opening NC	max		-
		- poi	min	ms	11
			max	ms	17
UL technical data			max	5	
Full-load current (FLA)	for three-phase	AC motor			
. s. iodd odiiolit (i LA)	, .51 till 00 prid00 /		at 480V	Α	7.6
			at 600V	A	6.1
Violded machanical na	orformana		at 000 V		0.1
Yielded mechanical pe		AC motor			
	for single-phase	E AC MOIOR	440/4001		٥.5
			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					
	a				

Contactor

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		AC current	Α	20
Short-circuit protecti	ion fuse, 600V			
·	High fault			
	Ğ	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL				A600 - Q600
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	ction			
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