



Product designation			Power contactor
Product type designation Contact characteristics			BGF09
		Nin	4
Number of poles		Nr. V	690
Rated insulation voltage Ui IEC/EN			
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			0.5
	min	Hz	25
IEC Conventional free air thermal current Ith	max	Hz A	400
Operational current le		A	20
Operational current le	AC 1 (<10°C)	۸	20
	AC-1 (≤40°C)	A	20 18
	AC-1 (≤55°C) AC-1 (≤70°C)	A	15
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A A	9
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	AC-4 (400V)		4
Nated operational power AC-1 (1540 C)	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	090 V	KVV	
TEC max current le in DCT with E/N 3 mil 1 poles in series	≤24V	Α	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	- / \	
120 max danont lo in Bo 1 mai 2/1 = 1me mai 2 poloc in conce	≤24V	Α	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
120 max can six is in 201 mai 2/11 = time mai o pelse in conce	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	<u></u>		
	≤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 se			
·			





		≤24V	Α	7
		48V	Α	6
		75V	Α	2
		110V	Α	1
		220V	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	_
IFC max current le in Γ	DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
120 max carrone to in E	ode Boe with E/1 (= 16the with 6 poles in defice	≤24V	Α	10
		48V	A	10
		75V		
			A	6
		110V	A	5
		220V	Α	0,8
IEC 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 co	urrent for 10s (IEC/EN60947-1)		Α	96
Protection fuse	· · · · · · · · · · · · · · · · · · ·			
		gG (IEC)	Α	20
		aM (IEC)	Α	10
Making capacity (RMS	value)	S (:=0)	A	92
Breaking capacity at vo	•		,,	
breaking capacity at ve	mage	440V	Α	72
		500V		72 72
			A	
D		690V	A	72
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			
		min	Nm	0.8
		max	Nm	1
		min	lbin	9
		max	lbin	9
Tightening torque for co	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	9
		max	Ibin	9
Max number of wires s	imultaneously connectable	Пих	Nr.	2
Conductor section	a.c.ioodoiy ooiiiiooldbio		1 111.	
Conductor Section	AWG/Kcmil			
	AVVO/NOTIII	2001		10
	Flavible w/e lum compluete = ===tio==	max		12
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75
		max	mm²	2.5





FOUR-POLE CONTACTOR, DC COIL, 220VDC, FASTON TERMINALS

	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	ion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	220
Conductor section		<u> </u>	
22/1440/0/ 000/0//	AWG/kcmil conductor section		
	max		12
Auxiliary contact charact			14
Thermal current Ith	Otofiotios — — — — — — — — — — — — — — — — — — —	А	10
	to control	Α	
IEC/EN 60947-5-1 des	signation		Q600
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data			
Performance level B10	0d according to EN/ISO 13489-1		
	rated load	cycles	500000
	mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		yes
EMC compatibility	•		yes
DC coil operating			
DC rated control voltage	ie.	V	220
DC operating voltage	9	<u> </u>	
_ 5 operating voltage	pick-up		
	pick-up min	%Us	75
		%Us	75 115
	dran out	/0US	110
	drop-out	0/11-	40
	min	%Us	10
A	max ***	%Us	25
Average coil consumpt			
	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	1113	
	Olooling 110		



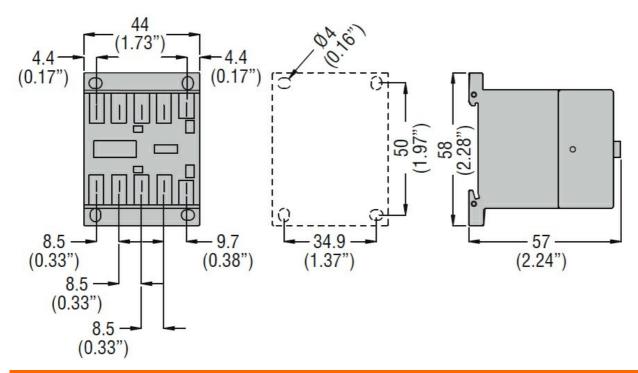


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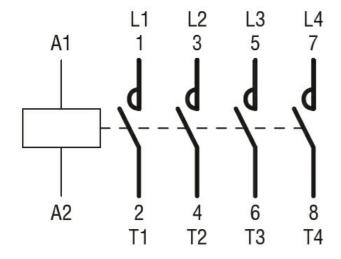
		min	ms	17
		max	ms	26
	Opening NC	•.		7
		min max	ms ms	7 17
	in DC	Пах	1110	
	Closing NO			
		min	ms	18
	Opening NO	max	ms	25
	Sporming 110	min	ms	2
		max	ms	3
	Closing NC			_
		min	ms	3
	Opening NC	max	ms	5
	Sporming IVS	min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor		Δ.	7.0
		at 480V at 600V	A A	7.6 6.1
Yielded mechanical pe	rformance	at 000 v		0.1
,	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	200/2001	LID	0
		200/208V 220/230V	HP HP	2
		460/480V	HP	5
		575/600V	HP	5
General USE	_			
	Contactor	AC ourront	٨	20
Short-circuit protection	fuse 600V	AC current	Α	20
Criore official protoction	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	30
	Ctondard fault	Fuse class		J
	Standard fault	Short circuit current	kA	5
		Fuse rating	A	30
Ambient conditions				
Temperature				
	Operating temperature		۰.	50
		min	°C	-50 +70
	Storage temperature	max	U	+10
	2.2.2.30 .0	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	on			2
Pollution degree Dimensions				3
DIIIIGHSIOHS				



ENERGY AND AUTOMATION



Wiring diagrams



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