



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		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	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
	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	A	3
	220V	A	_
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	А	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	16
	48V	A	16
	75V	А	10
	110V	A	10
	220V	A	2



IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	A	10
	220V	A	2
IFC may aureant to in DC2 DCE with L/D < 15mg with 1 pales in series	2201	Α	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			_
	≤24V	A	7
	48V	А	6
	75V	А	2
	110V	Α	1
	220V	А	-
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			- , -
	≤24V	А	10
	48V		10
		A	
	75V	A	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	10
Making capacity (RMS value)	x - 7	A	92
Breaking capacity at voltage		,,	~-
Dicaking capacity at voltage	44014	٨	70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	0.81
Tightening torque for terminals	· · · · · ·		
	min	Nm	0.8
		Nm	
	max		1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
	max		-



Conductor section	simultaneously connectable		Nr.	2
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	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
Power terminal prote	ction according to IEC/EN 60529			IP20 when
-	gg			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra 35mm
Maisht			~	
Weight			g	210
Conductor section				
	AWG/kcmil conductor section			10
		max		12
Auxiliary contact char Thermal current Ith	actenstics		٨	10
			A	A600 - Q600
IEC/EN 60947-5-1 de Operating current AC				A600 - Q600
Operating current AC	15	2201/	۸	2
		230V	A	3
		400V	A	1.9
On exerting a surrount DC	40	500V	A	1.4
Operating current DC		4401/	٨	2.0
Operating current DC		110V	Α	2.9
Operating current DC				
		24V	A	2.9
		24V 48V	A A	2.9 1.4
		24V 48V 60V	A A A	2.9 1.4 1.1
		24V 48V 60V 125V	A A A A	2.9 1.4 1.1 0.3
		24V 48V 60V 125V 220V	A A A A	2.9 1.4 1.1 0.3 0.1
Operating current DC		24V 48V 60V 125V	A A A A	2.9 1.4 1.1 0.3
Operating current DC		24V 48V 60V 125V 220V	A A A A A	2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC Operations Mechanical life		24V 48V 60V 125V 220V	A A A A A A cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operations Mechanical life Electrical life		24V 48V 60V 125V 220V	A A A A A	2.9 1.4 1.1 0.3 0.1 0.6
Operating current DC Operations Mechanical life Electrical life Safety related data	213	24V 48V 60V 125V 220V	A A A A A A cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data		24V 48V 60V 125V 220V 600V	A A A A A cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	10d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 500000 20000000 yes
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility	10d according to EN/ISO 13489-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 500000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1 me ling to IEC/EN 609474-4-1	24V 48V 60V 125V 220V 600V	A A A A A Cycles cycles	2.9 1.4 1.1 0.3 0.1 0.6 20000000 500000 500000 20000000 yes

DC operating voltage



I HKEE-F	OLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL LOW
	CONSUMPTION, 24VDC, 1NO AUXILIARY CONTACT, FASTON TERMINALS
pick-up	

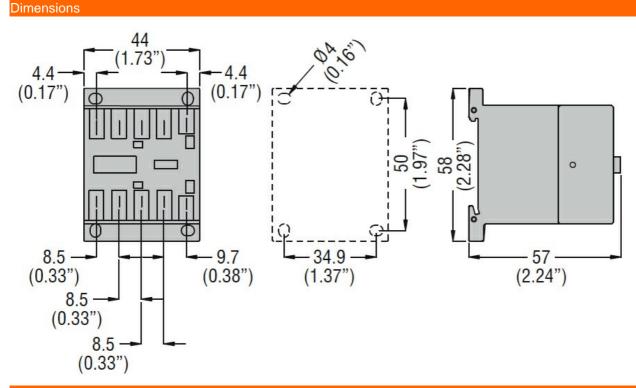
	pick-up				
			min	%Us	75
			max	%Us	115
	drop out		тах	/000	110
	drop-out				4.0
			min	%Us	10
			max	%Us	25
Average coil consum	ption ≤20°C				
5			in-rush	W	2.3
			holding	W	2.3
Max cycles frequency					
Mechanical operation	ļ.			cycles/h	3600
Operating times					
Average time for Us of	control				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	me	9
				ms	
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
		Opening NC			7
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		g	min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
				m a	2
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data			THOM I		
	A) for the set of the set	C mater			
Full-load current (FLA	 tor three-phase A 	AC motor			
			at 480V	Α	7.6
			at 600V	А	6.1
Yielded mechanical p	erformance				
sided meendmodi p		AC motor			
	for single-phase				o =
			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
			010/0001		0

Contactor

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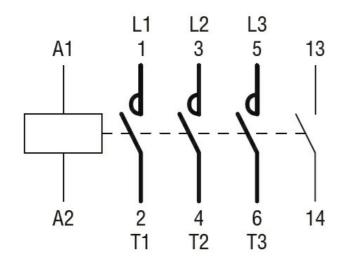


		AC current	Α	20
Short-circuit protect	ction fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of a	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	3			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3



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	

ETIM 8.0

EC000066 -Power contactor, AC switching