



Product designation			Power contactor
Product type designation			BGF09
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		A	20
Operational current le			
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-1 (T≤40°C)	0001/		0
	230V	kW	8
	400V	kW	14
	500V	kW	16
IFC may autrent to in DC1 with L/D < 1 ma with 1 nation in parisa	690V	kW	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	≤24V	٨	12
	≤24∨ 48V	A	12
	48V 75V	A A	4
	73V 110V	A	3
	220V	A	5
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	~	
	≤24V	А	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
•	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2



	≤24V 48V	A A	7 6
	48V 75V	A	
	110V	A	2 1
	220V	A	-
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	Α	
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
EC 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	A	0,8
EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤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		71	00
	gG (IEC)	А	20
	aM (IEC)	A	10
/aking capacity (RMS value)		A	92
Breaking capacity at voltage			
	440V	А	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
ightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
		-	-
ightening torque for coil terminal			
ightening torque for coil terminal	min	Nm	0.8
ightening torque for coil terminal	min max	Nm Nm	0.8 1
ightening torque for coil terminal	max	Nm	1
ightening torque for coil terminal	max min	Nm Ibin	1 9
	max	Nm Ibin Ibin	1 9 9
fax number of wires simultaneously connectable	max min	Nm Ibin	1 9
Max number of wires simultaneously connectable	max min	Nm Ibin Ibin	1 9 9
Nax number of wires simultaneously connectable	max min max	Nm Ibin Ibin	1 9 9 2
Max number of wires simultaneously connectable	max min	Nm Ibin Ibin	1 9 9

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			mm ²	2.5
	Flexible c/w lug conductor section	max	mm²	2.5
		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	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property whed
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
A sufficiency to the local		max		12
Auxiliary contact chara Thermal current Ith	acteristics		۸	10
IEC/EN 60947-5-1 de	signation		A	A600
Operations	Signation			A000
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
Mirror contato accordi		mechanical load	cycles	2000000
EMC compatibility	ing to IEC/EN 609474-4-1			yes yes
AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	_		
		min	%Us	75
	drop-out	max	%Us	115
	alop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
	, .	max	%Us	115
	drop-out	min	%Us	20
		min max	%Us %Us	20 55
AC average coil cons	umption at 20°C	Шал	,	
	of 50/60Hz coil powered at 50Hz			
	·	in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25

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		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	n 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			
		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			
		min	ms	3
		max	ms	5
	Opening NC			
		min	ms	11
		max	ms	17
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	А	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	А	20
Short-circuit protectior	n fuse, 600V			
	High fault			
		Short circuit current	kA	100

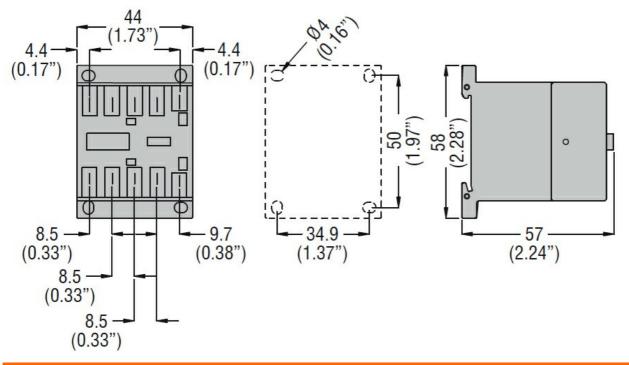
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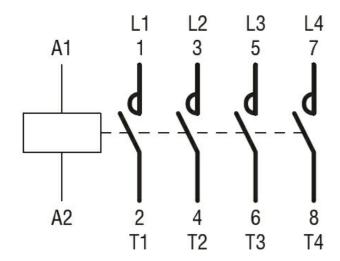
		Fuse rating	А	30
		Fuse class	, (J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3

Dimensions



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