



Product designation Product type designation			Power contactor 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		Α	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	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)			
	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	A	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0.01	•	4.5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V 220V	A	8
IFC may surrent lo in DC1 with $1/D < 1$ may with 2 notes in series	220 V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	<241/	۸	16
	≤24V 48V	A A	16 16
	46V 75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201	~	۷
	≤24V	А	16
	48V	A	16
	48V 75V	A	10
	110V	A	10
	220V	A	2
	2200	Л	£



EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	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	A	10
	48V 75V	A	6
	110V	A	5
$\Gamma_{\rm C}$ may summat be in $\Gamma_{\rm C2}$ $\Gamma_{\rm C2}$ with $L/\Gamma < 4\Gamma_{\rm max}$ with 4 malas in series	220V	A	0,8
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<0.4)/	^	40
	≤24V	A	10
	48V	A	10
	75V	A	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	А	72
	500V	Α	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC-3	W	0.81
-ightening torque for terminals			0.01
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
		Ibin	
ightening torque for coil terminal	max		9
		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
	min	mm²	0.75

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		max	mm²	2.5
	Flexible c/w lug conductor section	Παλ	11111	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
Mechanical features	Ŭ			properly wired
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		Δ	10
Thermal current Ith			A	10
IEC/EN 60947-5-1 de	esignation			A600
Operations Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	500000
	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	75
		max	%Us %Us	75 115
	drop-out	Παλ	/003	
		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
	umption at 20°C	max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	30
		holding	VA VA	4
	of 50/60Hz coil powered at 60Hz	lioiding	., .	
		in-rush	VA	25
			-	

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		holding	VA	3
	of 60Hz coil powered at 60Hz	noiding	VA	5
		in-rush	VA	30
		holding	VA	4
Dissipation at holding	≤20°C 50Hz		W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO	min	ms	12
		max	ms	21
	Opening NO	IIIdA	1113	21
	oponing ito	min	ms	9
		max	ms	18
	Closing NC			
	Ŭ	min	ms	17
		max	ms	26
	Opening NC			
		min	ms	7
		max	ms	17
	in DC			
	Closing NO			4.0
		min	ms	18
	Opening NO	max	ms	25
	Opening NO	min	ms	2
		max	ms	3
	Closing NC	Пах	mo	0
		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	A	7.6
		at 600V	A	6.1
Yielded mechanical pe				
	for single-phase AC motor	440/4001/	ЦБ	0.5
		110/120V 230V	HP HP	0.5 1.5
	for three-phase AC motor	2307	ΠĽ	1.J
	Tor 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 protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100

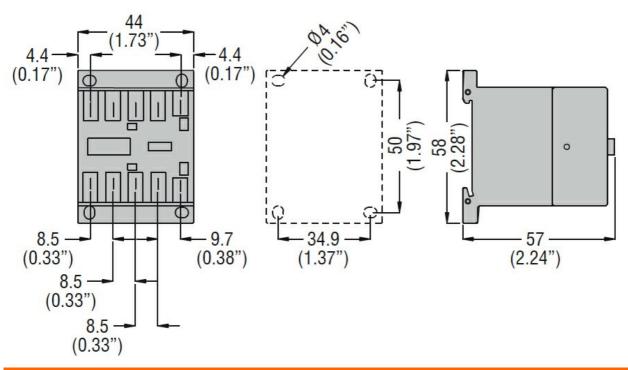
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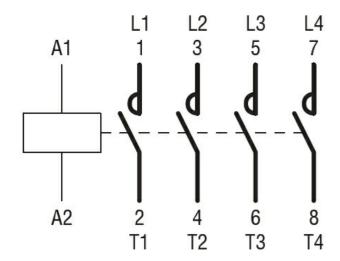
		Fuse rating	А	30
		Fuse class	, (	J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution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

Dimensions



Wiring diagrams





## Certifications and compliance

Compliance	
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