



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	А	3
	220V	Α	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	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	А	16
	75V	А	10
	110V	А	10
	220V	Α	2



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C OPERATING CURRENT IE (AC3) = 9A, DC COIL, 110VDC,	
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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	А	10
	220V	A	2
EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	A	2
	110V	A	1
	220V	A	-
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	~	
	≤24V	А	0
			8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	_
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	А	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		,,	~~
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage		~	52
stearing capacity at voltage	440V	А	72
	440V 500V	A	72
	500V 690V		72 72
Popietoneo por polo (overego veluo)	69UV	A	
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
Fightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Fightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9



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Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	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 sectior			2.0
		min	mm²	1.5
		max	mm²	2.5
				IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	224
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics		•	10
Thermal current Ith	-i		Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15	2201/	۸	2
		230V 400V	A A	3 1.9
		400V 500V	A	1.9
Operating current DC	12	0001	7.	1.7
		110V	А	2.9
Operating current DC	13			
		24V	А	2.9
		48V	A	1.4
		60V	А	1.1
		125V	А	0.3
		220V	А	0.1
		600V	А	0.6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating			\ <i>\</i>	110
DC rated control volta	lge		V	110



pick-up

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	pick-up			0/11-	75
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	otion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency			- J		-
Mechanical operation				cycles/h	3600
Operating times				0,0103/11	0000
	ontrol				
Average time for Us co					
	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			
		epe9e	min	ms	7
			max	ms	, 17
	in DC		Παλ	1115	17
	III DC				
		Closing NO			4.0
			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	A	6.1
			al 000V	А	0.1
Yielded mechanical pe					
	for single-phas	se AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	e AC motor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				

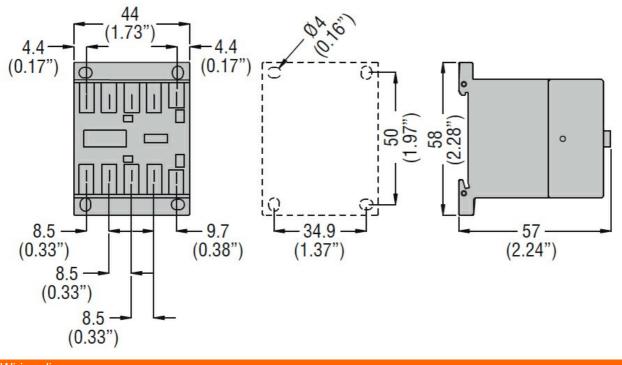
Contactor



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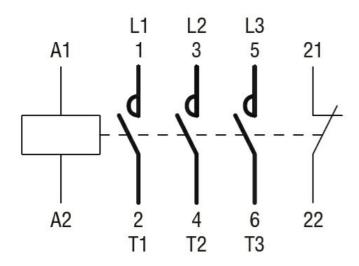
		AC current	А	20
Short-circuit protect	ion fuse, 600V			
	High fault			
	-	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature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

ETIM 8.0

ETIM

EC000066 -Power contactor, AC switching