

		_	
Product designation			Power contactor
Product type designation			BGF09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
		κv	0
Operational frequency			<u>.</u>
	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
	400V 415V	kW	4.3
	440V	kW	4.5
	440V 500V	kW	5
	690V		
	690 v	kW	5
Rated operational power AC-1 (T≤40°C)	0001		
	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	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	15
	48V	A	14
	48V 75V	A	9
	110V	A	8
	220V		
IFC move our repet to in DC4 with 1/D < Amere with 2 motors in a si	2200	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			10
	≤24V	A	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2



IEC moving unropt to in DC1 with L/D < 1mg with 4 materia			
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		•	4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IFC may compare the in DC2 DCE with 1/D < 15 may with 2 males in action	2200	A	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			•
	≤24V	A	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	10
	48V	A	10
	48V 75V	A	
			6
	110V	A	5
	220V	A	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	-201	A	96
Protection fuse		Λ	
		٨	20
	gG (IEC)	A	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
The first free free free free free free free fre	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9



11BGF0901D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC

AUXILIARY CONTACT, FASTON TERMINALS

Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	min	mm2	0.75
		min max	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	Шал		2.5
		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 protec	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
	all	owable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	224
Conductor section				
	AWG/kcmil conductor section			10
Auxiliary contact chara	octoriotico	max		12
Thermal current Ith	actensites		A	10
IEC/EN 60947-5-1 de	esignation		~	A600 - Q600
Operating current AC	•			,
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	2.9
Operating current DC	13			
		24V	A	2.9
		48V	A	1.4
		60V 125V	A	1.1
		125V 220V	A A	0.3 0.1
		220V 600V	A	0.6
Operations		000		5.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		ed load	cycles	500000
	mechanic	cal load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility DC coil operating				yes
DC rated control volta			V	24

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	pick-up				
	plok up		min	%Us	75
			max	%Us	115
	drop-out				
	a. op oa.		min	%Us	10
			max	%Us	25
Average coil consun	nption ≤20°C				
Ū			in-rush	W	3.2
			holding	W	3.2
Max cycles frequenc	у		Ť		
Mechanical operation	า			cycles/h	3600
Operating times					
Average time for Us	control				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
		5	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		ereeg · · e	min	ms	18
			max	ms	25
		Opening NO			
		• • • • • • • • • • • • • • • • • • •	min	ms	2
			max	ms	3
		Closing NC			C C
		e	min	ms	3
			max	ms	5
		Opening NC	max		-
			min	ms	11
			max	ms	17
JL technical data					
Full-load current (FL	A) for three-phase	AC motor			
	,		at 480V	А	7.6
			at 600V	A	6.1
Yielded mechanical	performance				-
	for single-phas	e AC motor			
	isi singis pilas		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor	2007		1.0
			200/208V	HP	2
			200/208V 220/230V	HP	3
			460/480V	пР HP	3 5
			400/4007		5
			575/600V	HP	5

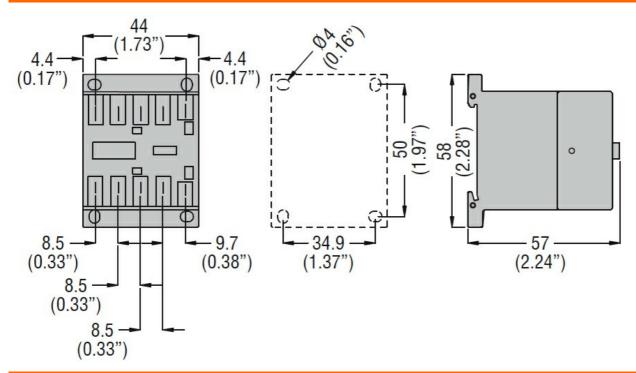
Contactor

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electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT, FASTON TERMINALS

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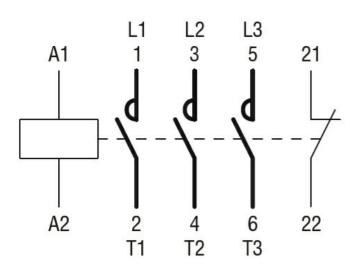
		AC current	А	20
Short-circuit protec	tion fuse, 600V			
	High fault			
	Ū.	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	ixiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature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



Wiring diagrams

11BGF0901D024





## 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** 

ETIM

EC000066 -Power contactor, AC switching