

11BGF0910D125 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, 1NO AUXILIARY CONTACT, FASTON TERMINALS



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	-0.414		4.0
	≤24V	A	12
	48V	A	10
	75V	A	4 3
	110V 220V	A A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	A	
TEC max current le in DC1 with Ert S mis with 2 poles in series	≤24V	٨	15
	≤24∨ 48V	A A	15
	48V 75V	A	9
	110V	A	8
	220V	A	0 _
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201	<u></u>	
	≤24V	А	16
	48V	A	16
	48V 75V	A	10
	110V	A	10
	220V	A	2



THREE-P

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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	А	2
IEC 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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	8
	48V	A	8
	40V 75V	A	5
	110V	A	4
	220V		
IFC may summant to in DC2 DCE with L/D < 45 ms with 2 msters in series	2200	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	-0.0.4		4.0
	≤24V	A	10
	48V	A	10
	75V	А	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	А	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	A	10
Making capacity (RMS value)		A	92
		Λ	52
Breaking capacity at voltage	4.40)/	^	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
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
		Ibin	
	max		9



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	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	0.75
		min	mm²	0.75
	Flexible c/w lug conductor section	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			2.0
		min	mm²	1.5
		max	mm²	2.5
Dower terminal protec	ction according to IEC/EN 60529			IP20 when
Power terminal protec	cion according to IEC/EN 80529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	210
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		•	10
Thermal current Ith	aise ation		Α	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15	230V	۸	2
		230V 400V	A A	3 1.9
		400V 500V	A	1.9
Operating current DC	12	3007	Λ	1.4
	12	110V	А	2.9
Operating current DC	13	1100	7.	2.0
oporating outfold 20		24V	А	2.9
		48V	A	1.4
		60V	A	1.1
		125V	А	0.3
		220V	А	0.1
		600V	А	0.6
Operations				
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
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating DC rated control volta				
	90		V	125



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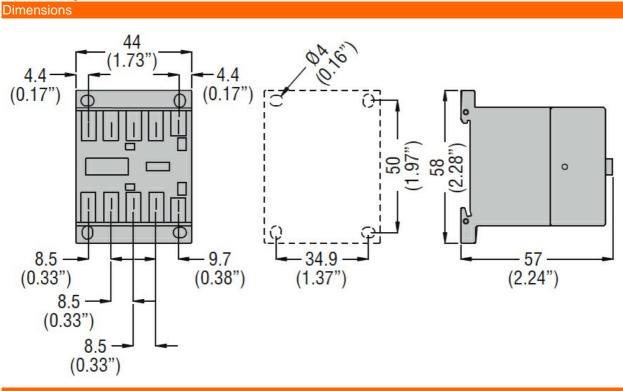
pick-up min %Us 75 %Us 115 max drop-out 10 %Us min max %Us 25 Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC **Closing NO** 12 min ms 21 max ms **Opening NO** 9 min ms max 18 ms **Closing NC** 17 min ms ms 26 max **Opening NC** min ms 7 17 max ms in DC Closing NO 18 min ms max ms 25 **Opening NO** 2 min ms max ms 3 **Closing NC** min 3 ms 5 max ms **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 performance 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 5 460/480V HP 5 575/600V HP General USE

Contactor



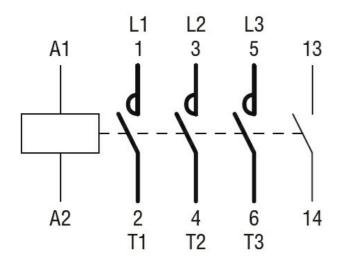
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		AC current	A	20
Short-circuit protec	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	30
Contact rating of au	uxiliary contacts according 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
J				



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