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BGF0031		l de la
	0 m	BGF0031

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		A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	А	15
	AC-3 (≤440V ≤55°C)	А	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	А	10
	75V	A	4
	110V	А	3
	220V	A	_
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	A	2
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

IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series



	≤24V	А	7
	48V	Α	6
	75V	А	2
	110V	А	1
	220V	А	-
IEC 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	_
IEC 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
IEC max current le in DC3-DC5 with L/R ≤ 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		Λ	30
Flotection fuse	gG (IEC)	А	20
	aM (IEC)		10
Making capacity (RMS value)		A A	92
Breaking capacity at voltage		A	92
Dreaking capacity at voltage	440V	^	72
	440V 500V	A	
	690V	A	72 72
Desistance per pele (everage velue)	090 V	A mΩ	10
Resistance per pole (average value)		11122	10
Power dissipation per pole (average value)	141-	14/	4
	Ith	W	4
The first state of the first sta	AC-3	W	0.81
Tightening torque for terminals		N I.a.	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Max as we have a function and the second second a stable		Nr.	2
-			
Conductor section			
-			
Conductor section	max		12
Max number of wires simultaneously connectable Conductor section AWG/Kcmil Flexible w/o lug conductor section	max		12
Conductor section AWG/Kcmil	max min	mm²	12 0.75



	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	тал		2.0
	r lexible with insulated space by conductor section	min	mm²	1.5
		max	mm²	2.5
		тал		IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				p
Operating position				
oporating pooliton		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	210
Conductor section			9	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics	Пах		
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation		~	Q600
Operations	Signation			0000
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	0d according to EN/ISO 13489-1			
renomance level DT	-	rated load	ovoloo	500000
		anical load	cycles cycles	2000000
Mirror contate accordi	ng to IEC/EN 609474-4-1	anicalioau	Cycles	
	lig to IEC/EN 809474-4-1			yes
EMC compatibility				yes
DC coil operating	20		V	125
DC rated control volta	ge		V	125
DC operating voltage	a fall sua			
	pick-up		0/11-	75
		min	%Us	75
		max	%Us	115
	drop-out		0/11	10
		min	%Us	10
		max	%Us	25
Average coil consump	DTION ≤20°C		147	
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency			1 //	0000
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c				
	in AC			
	Closing NO	-		10
		min	ms	12
		max	ms	21
	Opening NO			_
		min	ms	9
	_	max	ms	18
	Closing NC			

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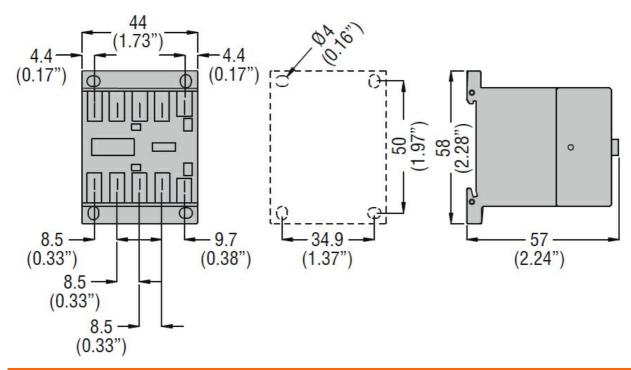


11BGF09T4D125 FOUR-POLE CONTACTOR, DC COIL, 125VDC, FASTON TERMINALS

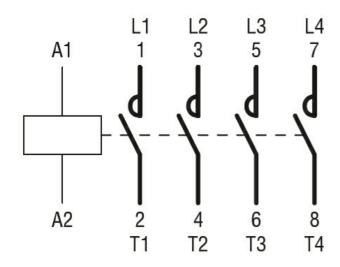
		min	ms	17
		max	ms	26
	Opening NC			
		min	ms	7
				17
	in DC	max	ms	17
	Closing NO			4.0
		min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			
	_	min	ms	3
		max	ms	5
	Opening NC		-	
		min	ms	11
		max	ms	17
UL technical data			1115	
) for three phase AC mater			
Fuil-load current (FLA) for three-phase AC motor	- (400) (7.0
		at 480V	A	7.6
		at 600V	A	6.1
Yielded mechanical pe	erformance			
	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	Α	20
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	30
Ambient conditions			A	
Temperature				
remperature	Operating temperature			
	Operating temperature	*	•	50
		min	°C °C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				

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Wiring diagrams



Certifications and compliance

Continoutions and		
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	on de la constant de	
ETIM 8.0		EC000066 - Power contactor, AC switching