ENERGY AND AUTOMATION

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 12VDC, 1NC
AUXILIARY CONTACT

	00000
Product designation	Power contactor
Product type designation	BG06

Product type designation			DG00
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	Пах	A	16
Operational current le		- / (10
Operational current to	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	A	14
	AC-1 (≤33°C) AC-1 (≤70°C)	A	12
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)		6
		A	
Detect on exetional nervey AC 2 /Tz55°C\	AC-4 (400V)	A	3.3
Rated operational power AC-3 (T≤55°C)	0001/	1-3.67	4.5
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
	690V	kW	3
Rated operational power AC-1 (T≤40°C)			
	230V	kW	6
	400V	kW	10
	500V	kW	13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	9
	48V	Α	8
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
•	≤24V	Α	12
	48V	Α	11
	75V	Α	7
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	,,	
120 max carrone to in 201 with 2/11 2 mile with 6 poice in sches	≤24V	Α	14
	≤24V 48V	A	14
	46 V 75 V		
	75V 110V	A A	8 8
	110V	А	ri d



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	220V	Α	1
IFC many asymmetric in DC4 with L/D < 4 man with 4 males in agriculture	220 V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	<0.4V	^	
	≤24V	A	_
	48V	A	_
	75V	A	_
	110V	A	_
150	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	_
	≤24V	Α	6
	48V	Α	5
	75V	Α	2
	110V	Α	1
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	7
	48V	Α	7
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2231	A	96
Protection fuse			
1 Total Culott Tuda	aG (IEC)	Α	16
	gG (IEC) aM (IEC)	A	6
Making capacity (RMS value)	aivi (IEC)	A	92
		A	92
Breaking capacity at voltage	4.4017	۸	70
	440V	A	72 72
	500V	A	72
Desistance records (surrect at a)	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	W	0.36
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



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		max	Ibin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
	Č	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
	G	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	Tiomble with inculated space rag contactor costion	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				property whea
Operating position				
opolating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			α	218
Conductor section			g	210
Conductor section	AVAICATION TO THE STATE OF THE			
	AWG/kcmil conductor section			40
A Manager Control of	and the second	max		12
Auxiliary contact chara	ACTERISTICS		Δ	4.0
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		24V 48V	A A	2.9 1.4
		48V	Α	1.4
		48V 60V	A A	1.4 1.2
		48V 60V 110V	A A A	1.4 1.2 0.6
		48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operations		48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
•		48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Mechanical life		48V 60V 110V 125V 220V	A A A A A cycles	1.4 1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life		48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data		48V 60V 110V 125V 220V	A A A A A cycles	1.4 1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	0d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
	0d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



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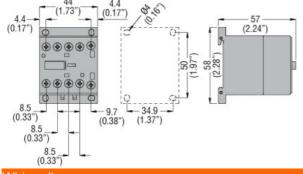
DC rated control voltage	де			V	12
DC operating voltage					
	pick-up			0/11-	75
			min max	%Us %Us	75 115
	drop-out		IIIdx	/005	113
	drop out		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency				. "	0000
Mechanical operation				cycles/h	3600
Operating times Average time for Us co	ontrol				
Average time for 05 cc	in AC				
	,	Closing NO			
		- 7 g - 1 -	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
		01 : 110	max	ms	18
		Closing NC	min	mo	17
			max	ms ms	26
		Opening NC	max	1113	20
		oponing ito	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC			
		_	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
UL technical data			max	ms	17
Full-load current (FLA)	for three-phase	AC motor			
. an load outfolk (I LA)	unoo pilase /		at 480V	Α	4.8
			at 600V	A	3.9
Yielded mechanical pe	erformance				
	for single-phase	e AC motor			
			110/120V	HP	0.3
			230V	HP	1
	for three-phase	AC motor	000/0001	L/D	4.5
			200/208V	HP	1.5
			220/230V 460/480V	HP HP	2 3
			575/600V	HP	3
			37 37 30 0 V	1 11	

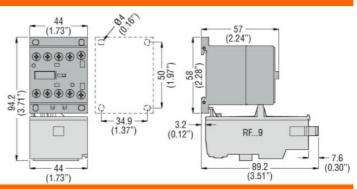


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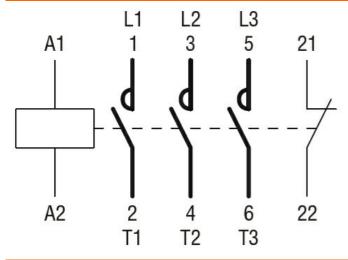
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General USE				
	Contactor			
		AC current	Α	16
Short-circuit protectio	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxi	liary 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 & Protect	tion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17")	(2.24")	(1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73")	(2	57





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



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| 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