electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR **ENERGY AND AUTOMATION**



Product designation			Power contactor with surge surpressor
Product type designation			BG06
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		Α	16
Operational current le			
	AC-1 (≤40°C)	Α	16
	AC-1 (≤55°C)	Α	14
	AC-1 (≤70°C)	Α	12
	AC-3 (≤440V ≤55°C)	Α	6
	AC-4 (400V)	Α	3.3
Rated operational power AC-3 (T≤55°C)			
	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			
	≤24V	Α	14
	48V	Α	14
	75V	Α	8





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	110V	Α	8
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	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	A	5
	110V	A	4
	220V	A	0,5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		0,0
The max current to in 600-600 with ETC = 10m3 with 4 poics in school	≤24V	Α	
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	96
		<u> </u>	90
Protection fuse	O (IEO)	^	4.0
	gG (IEC)	A	16
Malian and (CDMO all a)	aM (IEC)	A	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage	4.401.4		
	440V	Α	72
	500V	Α	72
	690V	A	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	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1





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				•
		min	lbin	9
Max number of wires	simultaneously connectable	max	Ibin Nr.	9
Conductor section	Simultaneously connectable		INI.	
Conductor Scotlon	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section		2	
		min	mm²	1.5
	Flexible with insulated spade lug conductor section	max	mm²	2.5
	r lexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
Davis at a main at a mate	etian according to IFO/FN 00500			IP20 when
	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				M. a. I. I
		normal		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	212
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			1.0
Thermal current Ith			Α	10
Decreting ourset AC	•			A600 - Q600
Operating current AC	15	230V	Α	3
		400V	Α	19
		400V 500V	A A	1.9 1.4
Operating current DC	12	400V 500V	A A	1.9 1.4
Operating current DC	12			
		500V	A	1.4
		500V 110V 24V	A	1.4 2.9 2.9
		500V 110V 24V 48V	A A A	1.4 2.9 2.9 1.4
		500V 110V 24V 48V 60V	A A A A	1.4 2.9 2.9 1.4 1.2
		500V 110V 24V 48V 60V 110V	A A A A A	1.4 2.9 2.9 1.4 1.2 0.6
		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operations Mechanical life Electrical life		500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	13	500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data		500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 20000000
	10d according to EN/ISO 13489-1	500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





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DC coil operating					
DC rated control voltage	ne			V	24
DC operating voltage				•	
20 operating remage	pick-up				
	pion up		min	%Us	75
			max	%Us	115
	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					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
		0	max	ms	18
		Closing NC	•		47
			min	ms	17
		On anima NC	max	ms	26
		Opening NC	min	mo	7
			min	ms ms	, 17
	in DC		max	ms	17
	III DC	Closing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO	max	1110	20
		opening ite	min	ms	2
			max	ms	3
		Closing NC		•	
		3	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	Α	4.8
			at 600V	Α	3.9
Yielded mechanical pe					
	for single-phas	e AC motor			
			110/120V	HP	0.3
			230V	HP	1
	for three-phase	e AC motor			
			200/208V	HP	1.5
			220/230V	HP	2
			460/480V	HP	3



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	575/600V	HP	3
General USE			
Contactor			
	AC current	Α	16
Short-circuit protection 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 auxiliary 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 & Protection			
Pollution degree			3
Dimensions			
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	RF9 7.6 89.2 (0.30")

A1 1 3 5 21 A2 2 4 6 22 T1 T2 T3

Certifications and compliance

Compliance



11BG0601D024V120

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	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