





Product designation			Power contactor BG06
Product type designation Contact characteristics			ВСОО
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational inequality	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)	2001		
	230V	kW	6
	400V	kW	10
	500V 690V	kW	13 18
IEC may current to in DC1 with L/B < 1 mg with 1 notes in series	0907	kW	10
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	۸	0
	≤24∨ 48V	A A	9 8
	75V	A	4
	110V	A	3
	220V	A	-
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
	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			
neo max sarront le in 2 de 2 de mar 2/10 - Tomo mar 2 poise in conce	≤24V	Α	7
	48V	Α	7
	75V	A	4
	110V	A	3
	220V	A	- -
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		_
TEC max current le in DC3-DC3 with L/R \(\) 13ms with 3 poles in series	<241/	۸	0
	≤24V	A	9
	48V	A	9
	75V	A	5
	110V	A	4
150 DOS DOS 111 L/D + 45	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	Α	_
	110V	Α	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	16
	aM (IEC)	Α	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	500 V		72
		Α	1 2
Resistance per pole (average value)	690V	A mΩ	
		A mΩ	10
	690V	mΩ	10
	690V	mΩ W	2.6
Power dissipation per pole (average value)	690V	mΩ	10
Power dissipation per pole (average value)	lth AC-3	mΩ W W	10 2.6 0.36
Power dissipation per pole (average value)	lth AC-3	mΩ W W	10 2.6 0.36 0.8
Power dissipation per pole (average value)	Ith AC-3 min max	mΩ W W Nm	10 2.6 0.36 0.8 1
Power dissipation per pole (average value)	Ith AC-3 min max min	MΩ W W Nm Nm Ibin	10 2.6 0.36 0.8 1
Power dissipation per pole (average value) Tightening torque for terminals	Ith AC-3 min max	mΩ W W Nm	10 2.6 0.36 0.8 1
Power dissipation per pole (average value) Tightening torque for terminals	Ith AC-3 min max min max	MΩ W W Nm Nm Ibin Ibin	10 2.6 0.36 0.8 1 9
Power dissipation per pole (average value) Tightening torque for terminals	Ith AC-3 min max min max	MΩ W W Nm Nm Ibin Ibin	10 2.6 0.36 0.8 1 9 9
Resistance per pole (average value) Power dissipation per pole (average value) Tightening torque for terminals Tightening torque for coil terminal	Ith AC-3 min max min max	MΩ W W Nm Nm Ibin Ibin	10 2.6 0.36 0.8 1 9





		max	Ibin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		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	_		
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
opolating position		normal		Vertical plan
		allowable		±30°
		anomasio		Screw / DIN rail
Fixing				35mm
Weight			g	176
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	:15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	:12			
		110V	Α	2.9
Operating current DC	213			
Operating current DC	213	24V	A	2.9
Operating current DC	213	48V	Α	1.4
Operating current DC	213	48V 60V	A A	1.4 1.2
Operating current DC	213	48V 60V 110V	A A A	1.4 1.2 0.6
Operating current DC	213	48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operating current DC	213	48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
	213	48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operations	213	48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	213	48V 60V 110V 125V 220V	A A A A A cycles	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life	213	48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations 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
Operations Mechanical life Electrical life Safety related data	10d 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
Operations Mechanical life Electrical life Safety related data	10d 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
Operations Mechanical life Electrical life Safety related data Performance level B	10d 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
	10d 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





Rated AC voltage at				V	48
AC operating voltage		=0.1			
	of 50/60Hz coil p				
		pick-up	min	%Us	75
			max	%Us	75 115
		drop-out	max	7003	110
		arop out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz			
	•	pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
C average coil con					
	of 50/60Hz coil p	owered at 50Hz		,	
			in-rush	VA	30
	. (50/00! : "		holding	VA	4
	of 50/60Hz coil p	owered at 60Hz	:	1//	25
			in-rush	VA VA	25 3
	of 60Hz coil power	ared at 60Hz	holding	VA	ა
	oi bonz coii powe	ered at 60Hz	in-rush	VA	30
			holding	VA	4
Dissipation at holdin	a <20°C 50Hz		Holding	W	0.95
Max cycles frequenc					0.00
Mechanical operation				cycles/h	3600
Operating times					
verage time for Us	control				
	in AC				
		Closing NO			
		Closing NO	min	ms	12
			min max	ms ms	12 21
		Closing NO Opening NO	max	ms	21
			max min	ms ms	9
		Opening NO	max	ms	21
			max min max	ms ms ms	21918
		Opening NO	max min max min	ms ms ms	2191817
		Opening NO Closing NC	max min max	ms ms ms	21918
		Opening NO	max min max min max	ms ms ms ms	219181726
		Opening NO Closing NC	max min max min max min	ms ms ms ms	2191817267
	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	219181726
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	2191817267
	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17
	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17

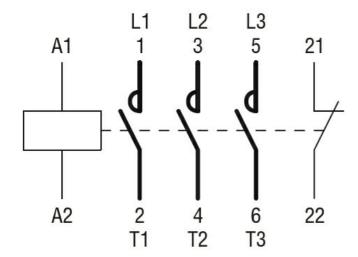


Opening NC

	Opening in	0		
		min	ms	11
		max	ms	17
UL technical data		max	1110	
	\ for three rhose AC mater			
Full-load current (FLA) for three-phase AC motor		_	
		at 480V	Α	4.8
		at 600V	Α	3.9
Yielded mechanical pe	erformance			
·	for single-phase AC motor			
	for alligio pridocitio motor	110/120V	HP	0.3
		230V	HP	
	for three-phase AC motor			
		200/208V	HP	1.5
		220/230V	HP	2
		460/480V	HP	3
		575/600V	HP	3
General USE		010,000 v	- ' ''	
General USE				
	Contactor			
		AC current	Α	16
Short-circuit protection	n fuse, 600V		_	_
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	30
			A	
	-	Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxili	iary contacts according to UL			A600 - Q600
Ambient conditions	ially contacte according to 02			71000 4000
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	<u>G</u> 	min	°C	-60
			°C	+80
NA Idea I		max		
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17")	(2.24")	(1.73") (1.73") (1.73") (1.73")	(2.	57
● ● ● ● ● ● ●	50 (1.97") 58 58 58 58	2,⊊ ® ® ® ® ®	(2.28")	
8.5 (0.33") 9.7 (0.38")	-34.9 - (1.37")	3.2 (1.37") (0.12")	RF9
8.5		44 44		89.2 (3.51") (0.30")
(0.33")		(1.73")		(3.31)
Wiring diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 50/60HZ, 48VAC, 1NC AUXILIARY CONTACT



Certifications and 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