



Product designation Product type designation			Power contactor 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-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	<del>-</del>
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			

IEC max current le in DC1 with L/R = 1ms with 4 poles in series





Ith   W   2.6   AC3   W   0.36				
T5V		=24V	Α	_
110V   A   -			Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series				_
				_
= 244	<del></del>	220V	Α	_
ABV	IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
T5V				
110V				
1				
EC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series				1
Section   Sect	150 vi i B00 B05 vi i i i i i i i i i i i i i i i i i i	2200	A	_
48V	IEC max current le in DC3-DC5 with $L/R = 15$ ms with 2 poles in series	0.417		-
T5V				
110V				
Making capacity (RMS value)   Breaking capacity (average value)   Bright (ave				
EEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series				
24V	IFC may autrent to in DC2 DC5 with L/D. 15mg with 2 pales in series	2200	A	_
A 8V	TEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	241/	۸	0
100				
110V				
EC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series				
EC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series				
Short-time allowable current for 10s (IEC/EN60947-1)	IEC may current to in DC3 DC5 with L/P = 15ms with 4 poles in series	220 V		0,5
A 8V	TEC max current le in DC5-DC5 with L/R = 15ms with 4 poles in series	-24\/	۸	
T5V				<del>-</del>
110V				_
Short-time allowable current for 10s (IEC/EN60947-1)				_
Short-time allowable current for 10s (IEC/EN60947-1)         A         96           Protection fuse         gG (IEC) A 16 aM (IEC) A 6         A         96           Making capacity (RMS value)         A 92         92           Breaking capacity at voltage         440V A 72 500V A 72 690V A 72         72 690V A 72           Resistance per pole (average value)         m? 10         10           Power dissipation per pole (average value)         Ith W 2.6 AC3 W 0.36         10           Tightening torque for terminals         min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9         9           Tightening torque for coil terminal         min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9				
Protection fuse    gG (IEC)	Short-time allowable current for 10s (IEC/EN60947-1)			96
gG (IEC)	·			
Making capacity (RMS value)		aG (IEC)	Α	16
Making capacity (RMS value)       A       92         Breaking capacity at voltage       440V A 72       72         500V A 72       690V A 72       72         Resistance per pole (average value)       m? 10         Power dissipation per pole (average value)       lth W 2.6       2.6         AC3 W 0.36       0.36         Tightening torque for terminals       min Nm 0.8       0.8         max Ibin 9       9         Tightening torque for coil terminal       min Nm 0.8       0.8         max Nm 1       1         min Ibin 9       9         max Ibin 9       9				
Breaking capacity at voltage	Making capacity (RMS value)	( - )		
440				
Soov   A   72     February   Fe		440V	Α	72
Resistance per pole (average value)   m?   10				
Power dissipation per pole (average value)    Ith   W   2.6     AC3   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   Nm   0.8     max   Nm   1     min   Ibin   9     max   Ibin			Α	
Power dissipation per pole (average value)    Ith   W   2.6   AC3   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   Nm   0.8   max   Nm   1   min   Ibin   9   max   Ibin   10   max   Ibin   10   max   Ibin   10   max	Resistance per pole (average value)		m?	10
Ith   W   2.6   AC3   W   0.36	Power dissipation per pole (average value)			
AC3   W   0.36		lth	W	2.6
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  max Ibin 9  max Ibin 9				
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 max Ibin 9 max Ibin 9 max Ibin 9	Tightening torque for terminals			
max         Nm         1           min         Ibin         9           Tightening torque for coil terminal         min         Nm         0.8           max         Nm         1           min         Ibin         9           max         Ibin         9		min	Nm	0.8
max Ibin 9 Tightening torque for coil terminal min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9		max		
Tightening torque for coil terminal  min Nm 0.8  max Nm 1  min Ibin 9  max Ibin 9		min	Ibin	9
min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9		max	Ibin	9
min Nm 0.8 max Nm 1 min Ibin 9 max Ibin 9	Tightening torque for coil terminal			
min Ibin 9 max Ibin 9		min	Nm	0.8
max Ibin 9		max	Nm	1
		min	Ibin	9
Max number of wires simultaneously connectable Nr. 2		max	<u>lbi</u> n	
	Max number of wires simultaneously connectable		Nr.	2



Conductor section	AVAICA (1/2 : 1		
	AWG/Kcmil max		12
	Flexible w/o lug conductor section		12
	min	mm²	0.75
	max	mm²	2.5
	Flexible c/w lug conductor section		<del>-</del>
	min	mm²	1.5
	max	mm²	2.5
	Flexible with insulated spade lug conductor section		
	min	mm²	1.5
	max	mm²	2.5
· · · · · · · · · · · · · · · · · · ·	ction according to IEC/EN 60529		IP20 when wired
Mechanical features			
Operating position			M. C. L.
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
 Weight		g	180
Conductor section		9	100
Conductor Coolion	AWG/kcmil conductor section		
	max		12
Auxiliary contact chara			
Thermal current Ith		А	10
IEC/EN 60947-5-1 de	esignation		A600 - Q600
Operating current AC	15		
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC			
	110V	A	2.9
Operating current DC			
	24V	Α	2.9
	48V	A	1.4
	60V	Α	1.2
	60V 110V	A A	1.2 0.6
	60V 110V 125V	A A A	1.2 0.6 0.55
	60V 110V 125V 220V	A A A	1.2 0.6 0.55 0.3
Operations	60V 110V 125V	A A A	1.2 0.6 0.55
Operations  Mechanical life	60V 110V 125V 220V	A A A A	1.2 0.6 0.55 0.3 0.1
Mechanical life	60V 110V 125V 220V	A A A A cycles	1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life	60V 110V 125V 220V	A A A A	1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	60V 110V 125V 220V 600V	A A A A cycles	1.2 0.6 0.55 0.3 0.1
Mechanical life Electrical life Safety related data	60V 110V 125V 220V 600V	A A A A Cycles	1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data	60V 110V 125V 220V 600V 10d according to EN/ISO 13489-1	A A A A Cycles cycles	1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1	60V 110V 125V 220V 600V	A A A A Cycles	1.2 0.6 0.55 0.3 0.1 20000000 500000
Mechanical life Electrical life Safety related data Performance level B1	60V 110V 125V 220V 600V 10d according to EN/ISO 13489-1 rated load mechanical load	A A A A Cycles cycles	1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 200000000
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi	60V 110V 125V 220V 600V 10d according to EN/ISO 13489-1 rated load mechanical load	A A A A Cycles cycles	1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000 yes
Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility	10d according to EN/ISO 13489-1 rated load mechanical load ling to IEC/EN 609474-4-1	A A A A Cycles cycles	1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 20000000 yes

of 60Hz coil powered at 60Hz





		adala			
		pick-up		0/11-	75
			min	%Us	75 445
		dana aut	max	%Us	115
		drop-out		0/11-	00
			min	%Us	20
AO			max	%Us	55
AC average coil consu					
	of 50/60Hz coil power	red at 50HZ	مام س ما	١/٨	20
			in-rush	VA	30
	-f 50/001		holding	VA	4
	of 50/60Hz coil power	red at 60HZ	in much	١./٨	0.5
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	at 60Hz			0.0
			in-rush	VA	30
District Control	0000 5011		holding	VA	4
Dissipation at holding	=20°C 50Hz			W	0.95
Max cycles frequency					2222
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO	_		
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC	_		
			min	ms	17
			max	ms	26
		Opening NC			_
			min	ms	7
	<del></del>		max	ms	17
	in DC	0			
		Closing NO			4.0
			min	ms	18
		O and NO	max	ms	25
		Opening NO			0
			min	ms	2
		Clasic = NC	max	ms	3
		Closing NC	•		2
			min	ms	3
		On aning NO	max	ms	5
		Opening NC	•		14
			min	ms	11
III to obnicel dete			max	ms	17
UL technical data	for three share AO	otor			
ruii-ioad current (FLA)	) for three-phase AC mo	JIUÍ	-1.40014	Λ	4.0
			at 480V	A	4.8
77.11	,		at 600V	Α	3.9
Yielded mechanical pe					
	for single-phase AC r	notor			
			110/120V	HP	0.3

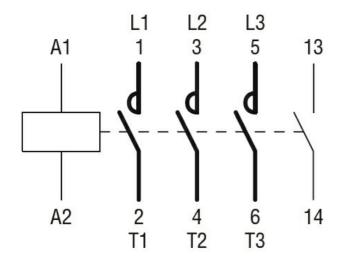




		230V	HP	1
	for three-phase AC motor			
		200/208V	HP	1.5
		220/230V	HP	2
		460/480V	HP	3
		575/600V	HP	3
General USE				
	Contactor			
		AC current	Α	16
Short-circuit protection	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of aux	iliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
·	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	ŭ i	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	etion			
Pollution degree				3
Dimensions				
44 44		44 02.6		
44 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (1.37") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73") (1.73")				
Wiring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 6A, AC COIL 60HZ, 48VAC, 1NO 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