





Product designation			Power contactor BG06
Product type designation Contact characteristics			DGU0
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational modulonoy	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	A	4
	110V	A	3
IFC may assess the impOd with L/D. If may with 2 males in paries	220V	Α	
IEC max current le in DC1 with L/R = 1ms with 2 poles in series	241/	۸	4.0
	=24V	A	12
	48V 75V	A	11
	110V	A A	7 6
	220V	A	O
IEC max current le in DC1 with L/R = 1ms with 3 poles in series	ZZU V		
TEO MAX current le in DOT with DN = 11115 with 3 poles in selles	=24V	Α	14
	=24V 48V	A	14
	75V	A	8
	110V	A	8
	1100	^	J





	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			
nax current to in 200 200 that 21th Tollio that 2 poloo in collect	=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-DC5 with L/K = 15ms with 5 poles in series	241/	٨	0
	=24V 48V	A	9
	46 V 75 V	A	9
		A	5
	110V	A	4
IFO	220V	Α	0,5
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series	2.11	ā	
	=24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	-
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	Α	16
	aM (IEC)	Α	6
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
			72
	500V	Α	
		A A	72
Resistance per pole (average value)	500V		72 10
	500V	Α	
	500V 690V	A m?	10
	500V 690V	A m? W	2.6
Power dissipation per pole (average value)	500V 690V	A m?	10
Power dissipation per pole (average value)	500V 690V Ith AC3	A m? W W	10 2.6 0.36
Power dissipation per pole (average value)	500V 690V Ith AC3	A m? W W	10 2.6 0.36 0.8
Power dissipation per pole (average value)	S00V 690V Ith AC3 min max	A m? W W Nm Nm	10 2.6 0.36 0.8 1
Power dissipation per pole (average value)	S00V 690V Ith AC3 min max min	M W W Nm Nm Ibin	10 2.6 0.36 0.8 1
Power dissipation per pole (average value) Tightening torque for terminals	S00V 690V Ith AC3 min max	A m? W W Nm Nm	10 2.6 0.36 0.8 1
Power dissipation per pole (average value) Tightening torque for terminals	S00V 690V Ith AC3 min max min max	M 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	500V 690V Ith AC3 min max min max	M 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	S00V 690V Ith AC3 min max min max	M W W Nm Nm Ibin Ibin	10 2.6 0.36 0.8 1 9





		max	Ibin	9
	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		2	4 =
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		2	4.5
		min	mm²	1.5
De la facilitation (a)	('	max	mm²	2.5
	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				\/autia=1 =1= :
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight				179
Conductor section			g	179
Conductor Section	AWG/kcmil conductor section			
	AVVG/KCITIII COTIQUCTOT Section	max		12
Auxiliary contact chara	actoristics	Пах		12
Thermal current Ith	20101131103		Α	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	-			71000 0000
operating current 710	10	230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001		1. 1
oporating current Do		110V	Α	2.9
Operating current DC	13	1101		2.0
oporating current Do		24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			,	
· · · · ·	0d according to EN/ISO 13489-1			
	3	rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		-,,	yes
EMC compatibility	<u> </u>			yes
AC coil operating				
Rated AC voltage at 5	50/60Hz		V	24
	· · · · · · · · · · ·		•	





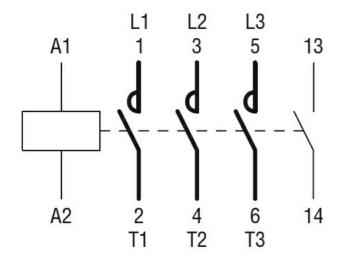
AC operating voltage					
	of 50/60Hz coil po	owered at 50Hz			
		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil po				
		pick-up		0/11-	00
			min	%Us	80
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	ımntion at 20°C		IIIax	/803	33
, to average con consu	of 50/60Hz coil po	owered at 50Hz			
	οι σο/σσι iz coii μι	OWOIGU AL JUI IZ	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz	Holding	٧,١	·
	51 557 551 12 5511 pt	5.15.04 dt 00112	in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	=20°C 50Hz		<u> </u>	W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
				cycles/h	3600
Mechanical operation	ontrol			cycles/h	3600
Mechanical operation Operating times	ontrol in AC			cycles/h	3600
Mechanical operation Operating times		Closing NO		cycles/h	
Mechanical operation Operating times		Closing NO	min	cycles/h	12
Mechanical operation Operating times		-	min max		
Mechanical operation Operating times		Closing NO Opening NO	max	ms ms	12 21
Mechanical operation Operating times		-	max min	ms ms	12 21 9
Mechanical operation Operating times		Opening NO	max	ms ms	12 21
Mechanical operation Operating times		-	max min max	ms ms ms	12 21 9 18
Mechanical operation Operating times		Opening NO	max min max min	ms ms ms ms	12 21 9 18
Mechanical operation Operating times		Opening NO Closing NC	max min max	ms ms ms	12 21 9 18
Mechanical operation Operating times		Opening NO	max min max min max	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times		Opening NO Closing NC	max min max min max min	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO	max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25 2 3
Mechanical operation Operating times	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO	max min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17





	min	ms	11
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor		_	
	at 480V	Α	4.8
V(11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	at 600V	Α	3.9
Yielded mechanical performance			
for single-phase AC motor	440/400\/	LID	0.0
	110/120V	HP	0.3
for those above AO most on	230V	HP	
for three-phase AC motor	200/2001	LID	4.5
	200/208V	HP	1.5
	220/230V	HP	2
	460/480V	HP	3
Conoral LICE	575/600V	HP	3
General USE			
Contactor	A.C	۸	16
Chart sire vit protesting from COOV	AC current	Α	16
Short-circuit protection fuse, 600V			
High fault			400
	Short circuit current	kΑ	100
	Fuse rating	Α	30
Cton doud foult	Fuse class		J
Standard fault	Chart aires it as sure at	I×Λ	_
	Short circuit current	kΑ	5
Contact ratios of auxilians contacts according to LII	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature On another a town and the			
Operating temperature		°C	F0
	min	°C	-50 +70
Storage temperature	max		+70
Storage temperature	min	°C	-60
		°C	-60 +80
Max altitude	max	m	3000
Resistance & Protection		111	3000
Pollution degree			3
Dimensions			J
4.4 (0.17") (0.17") (0.33") (0.33") (0.38") (1.37") (1.37")	3.2 (0.12	(2.28") 5	89.2 (3.51")
(0.33") Wiring diagrams	(1.73")		(3.51)
Wiring diagrams			





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