



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	160
	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
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
	690V	Α	72
Resistance per pole (average value)		mΩ	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	lbin	0.59
	max	lbin	0.74
Tightening torque for coil terminal			



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires s	simultaneously connectable		nr.	2
Conductor section				
	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	on		
	, ,	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when wired
Mechanical features	3			
Operating position				
31 31		normal		vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	212
Auxiliary contact chara	cteristics		9	
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600 - Q600
Operating current AC1				71000 0000
Operating current AO		230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC1	12	300 V		1.7
Operating current DC		110V	Α	2.9
On a ratio a surrant DC4	10	1100	A	2.9
Operating current DC1	13	0.41/	^	0.0
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	12



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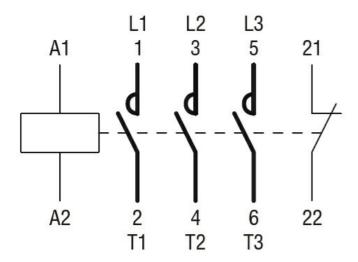
	max	V	575
AC operating voltage at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	30
	holding	VA	4
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	25
	holding	VA	3
of 60Hz coil powered at 60Hz			
	in-rush	VA	30
	holding	VA	4
Dissipation at holding ≤20°C 50Hz		W	0.9
DC coil operating			
DC rated control voltage			
	min	V	6
	max	V	250
DC operating voltage			
pick-up			
	min	%Us	75
	max	%Us	115
drop-out			
	min	%Us	10
	max	%Us	25
Average coil consumption ≤20°C			
	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operations		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	21
Opening NO			
	min	ms	9
	max	ms	18
Closing NC			
	min	ms	17
	min max	ms ms	17 26
Opening NC			
Opening NC			267
	max	ms	26
in DC	max min	ms ms	267
	max min	ms ms	267
in DC	max min	ms ms	26 7 17
in DC Closing NO	max min max	ms ms ms	26 7 17
in DC	max min max min	ms ms ms	26 7 17 18 25
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in DC Closing NO	max min max min max min max	ms ms ms	26 7 17 18 25 2
in DC Closing NO Opening NO	max min max min max min max min	ms ms ms	26 7 17 18 25 2 3
in DC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms	26 7 17 18 25 2



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	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 performance			
for single-phase AC motor			
	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
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			
Contactor			
	AC current	Α	16
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	60
Storage temperature		0.0	
	min	°C	-55 -70
NA 109 1	max	°C	70
Max altitude		m	3000
Resistance & Protection			2
Pollution degree Dimensions			3
Dimensions			
4.4 (0.17") (0.17") (2.24") (0.33") (0.38") (1.37")	3.2- (1.37") (0.12"	(2.28")	RF9 7.6 (0.30")
(0.88*) Wiring diagrams	(1.73")		(3.51)





Certifications and compliance

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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 6 classification

EC000066 - Power contactor, AC switching