

Product designation				Power contactor
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	A	16		
Operational current Ie	AC-1 (≤40°C)	A	16	
	AC-3 (≤440V ≤55°C)	A	6	
	AC-4 (400V)	A	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 Ie in DC1 with L/R ≤ 1ms with 1 poles in series	≤24V	A	9	
	48V	A	8	
	75V	A	4	
	110V	A	3	
	220V	A	–	
	IEC max current Ie in DC1 with L/R ≤ 1ms with 2 poles in series	≤24V	A	12
48V		A	11	
75V		A	7	
110V		A	6	
220V		A	–	
IEC max current Ie in DC1 with L/R ≤ 1ms with 3 poles in series		≤24V	A	14
	48V	A	14	
	75V	A	8	
	110V	A	8	
	220V	A	1	
	IEC max current Ie in DC1 with L/R ≤ 1ms with 4 poles in series	≤24V	A	–
48V		A	–	
75V		A	–	
110V		A	–	
220V		A	–	
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		≤24V	A	6
	48V	A	5	

	75V	A	2
	110V	A	1
	220V	A	–
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	A	7
	48V	A	7
	75V	A	4
	110V	A	3
	220V	A	–
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	A	9
	48V	A	9
	75V	A	5
	110V	A	4
	220V	A	0,5
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IEC max current I _e in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	A	–
	48V	A	–
	75V	A	–
	110V	A	–
	220V	A	–
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Short-time allowable current for 10s (IEC/EN60947-1)		A	96
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Protection fuse			
	gG (IEC)	A	16
	aM (IEC)	A	6
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Making capacity (RMS value)		A	92
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Breaking capacity at voltage			
	440V	A	72
	500V	A	72
	690V	A	72
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Resistance per pole (average value)		mΩ	10
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Power dissipation per pole (average value)			
	I _{th}	W	2.6
	AC3	W	0.36
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Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	0.59
	max	I _{bin}	0.74
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Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	I _{bin}	Prodotti finiti
	max	I _{bin}	Prodotti finiti
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Max number of wires simultaneously connectable		Nr.	2
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Conductor section			
Flexible w/o lug conductor section			
	min	mm ²	0.75
	max	mm ²	2.5
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Flexible c/w lug conductor section			
	min	mm ²	1.5
	max	mm ²	2.5
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Flexible with insulated spade lug conductor section			

	min	mm ²	1.5
	max	mm ²	2.5
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	180
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current I _{th}		A	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	110V	A	2.9
Operating current DC13	24V	A	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			
Performance level B10d according to EN/ISO 13489-1	rated load mechanical load	cycles	500000
		cycles	20000000
Mirror contacts according to IEC/EN 60947-4-1			Yes
EMC compatibility			Yes
Rated AC voltage at 60Hz		V	48
AC coil operating			
AC operating voltage			
of 60Hz coil powered at 60Hz			
pick-up	min	%Us	75
	max	%Us	115
drop-out	min	%Us	20
	max	%Us	55
AC average coil consumption 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	0.95
Max cycles frequency			
Mechanical operation		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
		max	ms 26
	Opening NC	min	ms 7
		max	ms 17
in DC			
	Closing NO	min	ms 18
		max	ms 25
	Opening NO	min	ms 2
		max	ms 3
	Closing NC	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	A	4.8
	at 600V	A	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
General USE			
Contactor			
	AC current	A	16
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100

	Fuse rating	A	30
	Fuse class		J
Standard fault	Short circuit current	kA	5
	Fuse rating	A	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			
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