



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		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)	2021		
	230V	kW	1.5
	400V	kW	2.2
	415V	kW	2.4
	440V	kW	2.5
	500V	kW	3
Detect an austicus of a super AC 4 (T<40°C)	690V	kW	3
Rated operational power AC-1 (T≤40°C)	2201/	LAAZ	0
	230V	kW	6
	400V 500V	kW kW	10 13
	690V	kW	18
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	030 V	KVV	10
TEO max current le in BOT with E/1( = 1m3 with 1 poles in series	≤24V	Α	9
	48V	A	8
	75V	A	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			<del></del> ,
	≤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	A	5
	75V	A	2
	110V	A	1
	220V	A	<u>'</u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		<del></del>
TEC max current le in DC3-DC3 with E/R = 15ms with 2 poles in series	≤24V	۸	7
		A	7
	48V	A	7
	75V	A	4
	110V	A	3
150 (1 : D00 D05	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	- · · ·		•
	≤24V	Α	9
	48V	Α	9
	75V	Α	5
	110V	Α	4
	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	Α	_
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			<u> </u>
9 9 9-	440V	Α	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)	330 V	mΩ	10
Power dissipation per pole (average value)		11122	10
r ower dissipation per pole (average value)	Ith	14/	2.6
		W	2.6
Tightoning targue for terminals	AC3	W	0.36
Tightening torque for terminals		N.I.:	0.0
	min	Nm	0.8
	max ·	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



		max	Ibin	0.74
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
	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	179
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	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	0 Lance For to FN/900 40400 4			
Performance level B1	0d according to EN/ISO 13489-1			500000
		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	0U/6UHZ		V	24



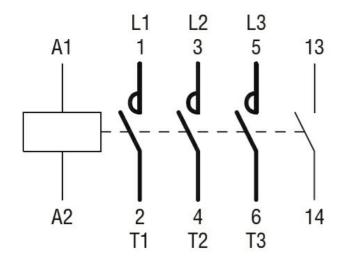
AC operating voltage					
	of 50/60Hz coil	powered at 50Hz			
		pick-up		0/116	7.5
			min max	%Us %Us	75 115
		drop-out	IIIax	/005	113
		urop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil	powered at 60Hz	max	7000	
	0. 00,001.2 00	pick-up			
		pront dp	min	%Us	80
			max	%Us	115
		drop-out			
		·	min	%Us	20
			max	%Us	55
AC average coil cons	umption 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 po	wered at 60Hz			
			in-rush	VA	30
<del></del>	-2200 5011		holding	VA	4
Dissipation at holding Max cycles frequency				W	0.95
iviax cycles frequency					
				o) (al a a /la	2000
Mechanical operation				cycles/h	3600
Mechanical operation Operating times				cycles/h	3600
Mechanical operation Operating times	control			cycles/h	3600
Mechanical operation Operating times		Closing NO		cycles/h	3600
Mechanical operation Operating times	control	Closing NO			
Mechanical operation Operating times	control	Closing NO	min	ms	12
Mechanical operation Operating times	control				
Mechanical operation Operating times	control	Closing NO Opening NO	min max	ms ms	12 21
Mechanical operation Operating times	control		min max min	ms ms ms	12 21 9
Mechanical operation Operating times	control	Opening NO	min max	ms ms	12 21
Mechanical operation Operating times	control		min max min max	ms ms ms	12 21 9 18
Mechanical operation Operating times	control	Opening NO	min max min	ms ms ms	12 21 9
Mechanical operation Operating times	control	Opening NO	min max min max min	ms ms ms ms	12 21 9 18
Mechanical operation Operating times	control	Opening NO Closing NC	min max min max min	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	control in AC	Opening NO Closing NC	min max min max min max	ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	control	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Mechanical operation Operating times	control in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC	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	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Mechanical operation Operating times	control in AC	Opening NO Closing NC Opening NC	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	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Mechanical operation Operating times	control in AC	Opening NO  Closing NC  Opening NC  Closing NO  Opening NO	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	control in AC	Opening NO Closing NC Opening NC Closing NO	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	control in AC	Opening NO  Closing NC  Opening NC  Closing NO  Opening NO	min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO  Closing NC  Opening NC  Closing NO  Opening NO	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

**ENERGY AND AUTOMATION** 

		min	ms	11
UL technical data		max	ms	17
	) for three-phase AC motor			
r an road odrront (r Er	, for times phase he moter	at 480V	Α	4.8
		at 600V	Α	3.9
Yielded mechanical po	erformance			
•	for single-phase AC motor			
	<b>.</b>	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		_	4.0
		AC current	A	16
Short-circuit protection				
	High fault	Ol and alter Manager		400
		Short circuit current	kA	100
		Fuse rating	Α	30
	Standard fault	Fuse class		J
	Standard fault	Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of auxil	iary contacts according to UL	i use raung		A600 - Q600
Ambient conditions	iary contacts according to the			7000 Q000
Temperature				
	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.38")	(1.37")	3.2 (1.37") 3.2 (0.12)	(2.28") 5	89.2 (0.30")
8.5 (0.33")		(1.73")		89.2 (3.51") (0.30")
Wiring diagrams				

**ENERGY AND AUTOMATION** 

Three-pole contactor, IEC operating current le (AC3) = 6A, AC coil 50/60Hz, 24VAC, 1NO auxiliary



## 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