

Product designation Product type designation			Power contactor BG09
Contact characteristics			2000
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational inequality	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
operational carrent to	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	70 4 (4001)		
Nated operational power AO-5 (1=55 O)	230V	kW	2.2
	400V	kW	4
	400 V 415 V	kW	4.3
	440V	kW	
	500V		4.5
	690V	kW kW	5 5
Poted operational power AC 1 (T<10°C)	090 v	KVV	<u> </u>
Rated operational power AC-1 (T≤40°C)	2201/	LAAA	0
	230V	kW	8
	400V	kW	14
	500V	kW	16
IFO and a summer to be DOA with 1/D < Amen with A male in a spin	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40.4 17		40
	≤24V	A	12
	48V	A	10
	75V	Α	4
	110V	A	3
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	.0.43.4		. –
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	A	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		
ILO MAX current le in DO3-DO3 with L/TC3 Toms with 1 poles in series	~ 04\/	٨	7
	≤24V	A	7
	48V	Α	6
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	ZZU V		-
TEO may content to in 200-2003 with E/K > 13ms with 3 poles in series	-01V	۸	10
	≤24V	A	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	0,8
Short time allowable current for 10s (IEC/ENG0047.1)	220 V	A	96
Short-time allowable current for 10s (IEC/EN60947-1)		A	90
Protection fuse	. 0 (150)		00
	gG (IEC)	Α	20
	aM (IEC)	Α	10
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)			. •
. 5.1.5. Glospation por poro (avorago valuo)	Ith	W	4
	AC-3	W	0.81
Tightoning targue for terminals	AU-3	٧٧	U.O I
Tightening torque for terminals			0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	111111	15111	•



		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	= -	max		12
	Flexible w/o lug conductor section		2	
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section		2	4.5
		min	mm²	1.5
	Electric Street Land Land Land Land Land Land	max	mm²	2.5
	Flexible with insulated spade lug conductor section		2	4 =
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ection according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
ixing				35mm
Veight			g	220
Conductor section			9	220
Johnacion Section	AWG/kcmil conductor section			
	AVVO/Rettill conductor section	max		12
Auxiliary contact cha	racteristics	max		12
Thermal current Ith			Α	10
				117
	esignation			
EC/EN 60947-5-1 d	-			A600 - Q600
EC/EN 60947-5-1 d Operating current AC	-	230V		A600 - Q600
EC/EN 60947-5-1 d	-	230V 400V	A	A600 - Q600 3
EC/EN 60947-5-1 d	-	400V	A A	A600 - Q600 3 1.9
EC/EN 60947-5-1 d Operating current AC	C15		A	A600 - Q600 3
EC/EN 60947-5-1 d Operating current AC	C15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
EC/EN 60947-5-1 d Derating current AC Derating current DC	C15	400V	A A	A600 - Q600 3 1.9
EC/EN 60947-5-1 d Derating current AC Derating current DC	C15	400V 500V 110V	A A A	A600 - Q600 3 1.9 1.4 2.9
EC/EN 60947-5-1 d Deprating current AC Deprating current DC	C15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
EC/EN 60947-5-1 d Deprating current AC Deprating current DC	C15	400V 500V 110V 24V 48V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
EC/EN 60947-5-1 d Deprating current AC Deprating current DC	C15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
EC/EN 60947-5-1 d Deprating current AC Deprating current DC	C15	400V 500V 110V 24V 48V 60V 110V	A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
EC/EN 60947-5-1 d Derating current AC Derating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
EC/EN 60947-5-1 d Deprating current AC Deprating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
EC/EN 60947-5-1 d Deperating current AC Deperating current DC Deperating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
EC/EN 60947-5-1 d Deperating current AC Deperating current DC Deperating current DC Deperating current DC	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
EC/EN 60947-5-1 d Deperating current AC Deperating current DC Deperating current DC Deperating current DC Deperations Mechanical life	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
EC/EN 60947-5-1 d Deperating current AC Deperating current DC Deperating current DC Deperating current DC Deperations Mechanical life Electrical life	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Departing current DC Departing	C15 C12 C13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Departing current DC Departing	C15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 5000000
Departing current DO Departing	C12 C13 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Departing current DO Departing	C12 C13 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Departing current DO Departing	C12 C13 C13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

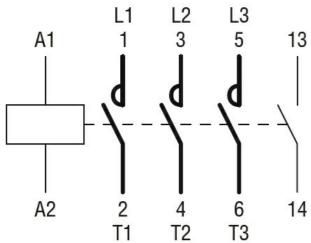


DC rated control voltage	10			V	12
DC operating voltage	, c			v	12
z o oporaming romago	pick-up				
	rr		min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
Managed a formula			holding	W	3.2
Max cycles frequency				ovoloo/b	2600
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	ontrol				
Avoidgo umo for oo oo	in AC				
		Closing NO			
		o -	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		Opening NC	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
		01 : 110	max	ms	3
		Closing NC	min	me	2
			min max	ms ms	3 5
		Opening NC	IIIax	1113	•
		5 p 5 m 19 110	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase A	C motor			0.5
			110/120V	HP	0.5
	for three shape ^C	motor	230V	HP	1.5
	for three-phase AC	י וווטנטו	200/208V	HP	2
			200/208V 220/230V	HP HP	2
			460/480V	HP	5
			575/600V	HP	5



ENERGY AND AUTOMATION

0					
General USE					
Contacto)I	AC current	Α	20	
Short-circuit protection fuse, 600	V				
High faul					
· ·		Short circuit current	kA	100	
		Fuse rating	Α	30	
		Fuse class		J	
Standard	l fault				
		Short circuit current	kA	5	
		Fuse rating	Α	30	
		Fuse class		RK5	
Contact rating of auxiliary contact	ts according to UL			A600 -	Q600
Ambient conditions					
Temperature					
Operating	g temperature				
		min	°C	-50	
		max	°C	+70	
Storage t	temperature				
		min	°C	-60	
		max	°C	+80	
Max altitude			m	3000	
Resistance & Protection				_	
Pollution degree				3	
Dimensions					
4.4 (1.73") (2.24") (2.24") (2.24") (3.33") (3.51") (0.33") (3.51") Wiring diagrams					7.6 (0.30")
· · ·	2 2 2				



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



11BG0910D012

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NO
AUXILIARY CONTACT

ENERGY AND AUTOMATION

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