**ENERGY AND AUTOMATION** 

#### electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NO AUXILIARY CONTACT

9 9 9 9 9 P

Product designation Power contactor Product type designation BG09

Product type designation			BG09
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	20
Operational current le			
	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)	Α	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	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



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	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/IV 3 13ms with 1 poles in series	<b>~</b> 04\/	۸	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		<del>-</del>
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)	A	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	•



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		max	Ibin	9
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
Power terminal prote	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position	<u> </u>			
opolating position		normal		Vertical plan
		allowable		±30°
		anomasio		Screw / DIN rail
Fixing				35mm
Weight			g	210
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	:15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	;12			
		110\/	Α	2.9
		110V		2.5
Operating current DC	213			
Operating current DC	213	24V	Α	2.9
Operating current DC	213	24V 48V	A A	2.9 1.4
Operating current DC	213	24V 48V 60V	A A A	2.9 1.4 1.2
Operating current DC	213	24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
Operating current DC	213	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC	213	24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
	213	24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operations	213	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life	213	24V 48V 60V 110V 125V 220V	A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life	213	24V 48V 60V 110V 125V 220V	A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A A	2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000

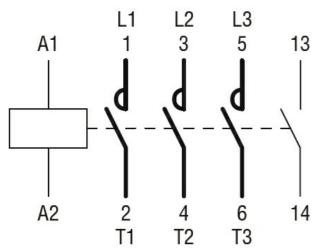


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DC rated control voltage	1e			V	60
DC operating voltage	<del>je</del>			v	
	pick-up				
	,,		min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
Managed a formula			holding	W	3.2
Max cycles frequency				ovoloo/b	2600
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	ontrol				
Avorago umo for co oc	in AC				
		Closing NO			
		<b>5</b>	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
		Olasia NO	max	ms	3
		Closing NC	min	me	2
			min max	ms ms	3 5
		Opening NC	max	1113	J
		opolinig i to	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase AC	motor	4404000		0.5
			110/120V	HP	0.5
	for three phase AC	motor	230V	HP	1.5
	for three-phase AC	IIIOlOI	200/208V	HP	2
			220/230V	пг HP	3
			460/480V	HP	5
			575/600V	HP	5

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General USE				
Contactor				
	AC current	Α	20	
Short-circuit protection fuse, 600V				
High fault				
	Short circuit current	kA	100	
	Fuse rating	Α	30	
	Fuse class		J	
Standard fault				
	Short circuit current	kA	5	
	Fuse rating	Α	30	
	Fuse class		RK5	
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				
4.4 (0.17") (0.17") (2.24") (2.24") (0.33") (0.33") (0.33") (0.33") (0.33") (1.37") Wiring diagrams	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	RF9 RF9 (3.51")	7.6 (0.30")



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



#### 11BG0910D060

electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NO
AUXILIARY CONTACT

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CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

CCC

cULus

EAC

ETIM classification

**ETIM 8.0** 

Certificates

EC000066 -Power contactor, AC switching