electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT

ENERGY AND AUTOMATION



Product designation			Power contactor
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
7	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
	110V	Α	10



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	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
ILO max current le in DOT with L/1\ 2 mis with 4 poles in series	≤24V	۸	16
	≤24 V 48 V	A A	16
	75V	A	10
	110V		10
		A	
150	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	10.43.7		_
	≤24V	A	7
	48V	A	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	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	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	A	10
	75V	A	6
	110V	Α	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse			
1 Tote Citori Tube	gG (IEC)	۸	20
		A	20
Making consists (DMC solve)	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			70
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	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



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		max	lbin	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	ection according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position	<u> </u>			
opolating position		normal		Vertical plan
		allowable		±30°
		anomabio		Screw / DIN rail
Fixing				35mm
Weight			g	225
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	215			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC				
operating current be	C12			
•		110V	Α	2.9
•				
•		24V	Α	2.9
•		24V 48V	A A	2.9 1.4
•		24V 48V 60V	A A A	2.9 1.4 1.2
		24V 48V 60V 110V	A A A	2.9 1.4 1.2 0.6
		24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
		24V 48V 60V 110V 125V 220V	A A A A	2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC		24V 48V 60V 110V 125V	A A A A	2.9 1.4 1.2 0.6 0.55
Operating current DC		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
Operating current DC Operations Mechanical life		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
Operating current DC Operations Mechanical life Electrical life		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
Operating current DC Operations Mechanical life Electrical life Safety related data	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
Operating current DC Operations Mechanical life Electrical life Safety related data		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
Operating current DC 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
Operating current DC 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
Operating current DC 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 cycles	2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



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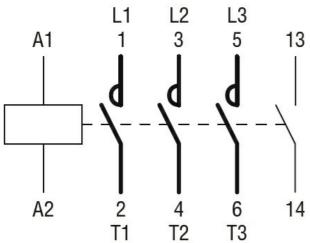
ENERGY AND AUTOMATION

DC rated control voltage	ge			V	48
DC operating voltage					
	pick-up		min	0/116	75
			min max	%Us %Us	75 115
	drop-out		IIIdx	/003	113
	a. op 0 a.		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					2000
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	ontrol				
Average time for 03 cc	in AC				
		Closing NO			
		Ŭ	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
		Ola sia a NO	max	ms	18
		Closing NC	min	ms	17
			max	ms	26
		Opening NC	max	1110	20
		5 p 5 m	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
		_	max	ms	5
		Opening NC			44
			min	ms	11
UL technical data			max	ms	17
Full-load current (FLA)	for three-phase	AC motor			
	1300 pridoo /		at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe	erformance				
	for single-phase	e AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor	000/000/	LID.	0
			200/208V 220/230V	HP HP	2
			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
Standard fault	Fuse class		J
Standard fault	Short circuit current	kA	5
	Fuse rating	A	30
	Fuse class	^	RK5
Contact rating of auxiliary contacts according to UL	. 335 5.405		A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
Max altitude	max	°C	+80 3000
Resistance & Protection		m	3000
Pollution degree			3
Dimensions			
(0.17") (0.17") (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	89.2 (3.51")
Wiring diagrams			



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



11BG0910D048

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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
Certificates	
	CCC
	cULus
	EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching