electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 12VDC, 1NC AUXILIARY CONTACT

ENERGY AND AUTOMATION



Product designation			Power contactor
Product type designation			BG09
Contact characteristics		Nle	2
Number of poles Rated insulation voltage Ui IEC/EN		Nr. V	3 690
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		KV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIax	A	20
Operational current le			20
Operational current le	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤33°C) AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	9
	AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	710 4 (4001)		
Nation operational power AO-0 (1=00 O)	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)			
Trailed operational perior (1-10 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	<u> </u>
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 may current to in DC1 with L/D < 1mc with 4 notes in series	220 V		
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	20 A I	۸	4.0
	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	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	2201		
TEO THAN GUITOR TO IN 1900 1900 WILL ETT = TOTHS WILL 2 police in series	≤24V	Α	8
	48V		
		A	8
	75V	A	5
	110V	Α	4
	220V	A	
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	-		
120 max carrent to in 200 200 mar 2/10 - rome mar 1 poles in cones	≤24V	Α	10
	48V	Α	10
	75V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	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)		11122	
rower dissipation per pole (average value)	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals	_		0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	•		



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Marrian la antidada		max	lbin	9
wax 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
D (IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	216
Conductor section			9	210
Conductor Section	AWG/kcmil conductor section			
	AVVG/RCITIII CONDUCTOR Section	may		12
Auxiliary contact char	ractoristics	max		12
Thermal current Ith	aciensiles		А	10
IEC/EN 60947-5-1 de	ocianation			A600 - Q600
	•			A000 - Q000
Operating current AC	.13	2201/	۸	0
		230V 400V	A	3
		500V	A	1.9
On a ratio a a current DC	M.O.	5007	A	1.4
Operating current DC	712	440)/	^	0.0
		110V	Α	2.9
O (' D C	140			
Operating current DC	213			0.0
Operating current DC	213	24V	A	2.9
Operating current DC	213	24V 48V	Α	1.4
Operating current DC	213	24V 48V 60V	A A	1.4 1.2
Operating current DC	213	24V 48V 60V 110V	A A A	1.4 1.2 0.6
Operating current DC	213	24V 48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operating current DC	213	24V 48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
	213	24V 48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
Operations	213	24V 48V 60V 110V 125V 220V	A A A A	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 cycles	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	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 cycles	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 Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
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 Cycles cycles	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 Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level Both	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A Cycles cycles	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 Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



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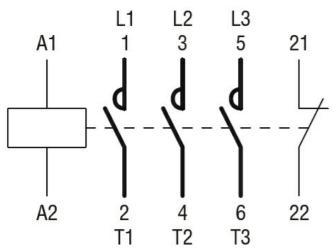
ENERGY AND AUTOMATION

DC rated control voltage	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 1 10	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	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	
	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



11BG0901D012

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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

CCC

cULus

EAC

ETIM classification

ETIM 8.0

Certificates

EC000066 -Power contactor, AC switching