electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 60VDC, 1NC AUXILIARY CONTACT

ENERGY AND AUTOMATION



Product designation			Power contactor
Product type designation			BG09
Contact characteristics		N.I.	•
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			
<u> </u>	≤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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eously connectable Kcmil le w/o lug conductor section	max	Nr.	12
			12
			12
le w/o lug conductor section			12
le w/o lug conductor section			
	!	_	
	min	mm²	0.75
	max	mm²	2.5
le c/w lug conductor section			
	min		1.5
	max	mm²	2.5
e with insulated spade lug conductor section			
			1.5
	max	mm²	2.5
ording to IEC/EN 60529			IP20 when
			properly wired
			Vertical plan
	allowable		±30°
			Screw / DIN rail 35mm
		a	210
		9	
kemil conductor section			
XCITIII CONDUCTOR SECTION	may		12
	max		12
		Δ	10
 1			A600 - Q600
<u>'</u>			7.000 0000
	2301/	۸	3
			1.9
			1.4
_	300 v		1.4
	110\/	۸	2.0
	1100	A	2.9
	0.41/	۸	0.0
			2.9
			1.4
			1.2
			0.6
			0.55
			0.3
	6007	А	0.1
		a e l = =	20000000
		cycles	20000000
			F(1/1/1/1/)
		cycles	500000
		cycles	300000
rding to EN/ISO 13489-1			
	rated load	cycles	500000
me	rated load echanical load		500000 20000000
		cycles	500000
	e with insulated spade lug conductor section ording to IEC/EN 60529 kcmil conductor section	min max e with insulated spade lug conductor section min max ording to IEC/EN 60529 normal allowable kcmil conductor section max	min mm² max max mm² max



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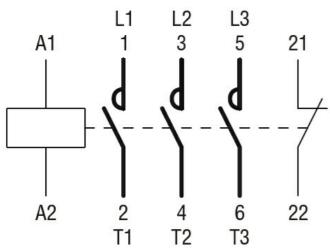
DC rated control voltage	10			V	60
DC operating voltage	je			v	
	pick-up				
	,,		min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	3.2
Managed a formula			holding	W	3.2
Max cycles frequency				ovoloo/b	2600
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	ontrol				
Avorago umo for co oc	in AC				
		Closing NO			
		5	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 protect				
	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
	xiliary 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 & Prote	ection			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.1 (0.17") (0.38") (0.33") (0.33")	(2.24") (2.28") (2.28") (2.28")	44 (1.73")	(2.28")	8F9 7.6 (0.30")

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



11BG0901D060

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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