



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**



Product designation			Power contactor
Product type designation Contact characteristics			BG09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		K V	0
Operational frequency	min	Hz	25
		Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le		^	20
Operational current le	AC-1 (≤40°C)	Α	20
	AC-1 (≤40 C) AC-1 (≤55°C)	A	18
	AC-1 (≤33 C) AC-1 (≤70°C)	A	15
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	9
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	^	4
Nated operational power AC-3 (1233 C)	230V	kW	2.2
	400V	kW	2.2 4
	400 V 415 V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	030 V	IXVV	<u> </u>
Trated operational power AC-1 (1340 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	030 V	IXVV	22
The max current le in bot with Lift 2 mis with 1 poles in series	≤24V	Α	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V		
TEO MAX GATTON TO IT DOT WATE THE WAIT 2 poles in school	≤24V	Α	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	,,	
1.20 max danoncio in 201 mai Erica into with o polos in series	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	1100	, ,	. •





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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
IFO	220 V	A	
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			
	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	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	A	72
	690V	A	72
Posietaneo por polo (avorago valuo)	090 v		
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	Ibin	9
Tightening torque for coil terminal	11107		-
Tighterning torque for conficilitial	min	Nm	0.8
	min		
	max	Nm	1
	min	lbin	9





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		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section	_		
		min	mm²	0.75
	FI 21 / 1 / 2	max	mm²	2.5
	Flexible c/w lug conductor section		2	4.5
		min	mm²	1.5
	Elevible with insulated and deliver conductor as ation	max	mm²	2.5
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		min	mm²	2.5
		max	111111	IP20 when
Power terminal proted	ction according to IEC/EN 60529			properly wired
Mechanical features				proporty willow
Operating position				
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		normal		Vertical plan
		allowable		±30°
Finder.				Screw / DIN rail
Fixing				35mm
Weight			g	215
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
	15			
	15	230V	А	3
	15	400V	A A	1.9
Operating current AC				
Operating current AC		400V 500V	A A	1.9 1.4
Operating current AC	12	400V	Α	1.9
Operating current AC	12	400V 500V 110V	A A	1.9 1.4 2.9
Operating current AC	12	400V 500V 110V 24V	A A A	1.9 1.4 2.9 2.9
Operating current AC	12	400V 500V 110V 24V 48V	A A A	1.9 1.4 2.9 2.9 1.4
Operating current AC	12	400V 500V 110V 24V 48V 60V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current AC Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12 13 Od 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	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current AC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 Od 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	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accordi	12 13 Od 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	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 200000000 yes
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 Od 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	1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000





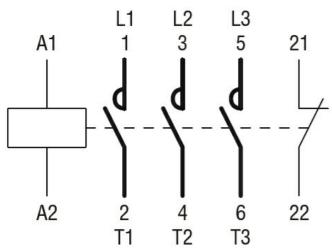
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DC rated control voltage	ge			V	220
DC operating voltage					
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		max	7000	110
	·		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
Max cycles frequency			holding	W	3.2
Mechanical operation				cycles/h	3600
Operating times				0,0.00,	
Average time for Us co	ontrol				
	in AC				
		Closing NO			40
			min	ms ms	12
		Opening NO	max	ms	21
		Opolining 140	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
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
		0	max	ms	5
		Opening NC	min	me	11
			min max	ms ms	17
UL technical data				0	
Full-load current (FLA)	for three-phase A	C motor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe		AC motor			
	for single-phase	AC MOIOI	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	AC motor	2001	• • • •	
	,		200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC, **1NC AUXILIARY CONTACT**

General USE				
	Contactor		_	
		AC current	A	20
Short-circuit protection				
	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 auxi	liary contacts according to UL			A600 - Q600
Ambient conditions	non, consider store and green			
Temperature				
Tomporataro	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature	Шах		+70
	Storage temperature	min	°C	-60
			°C	+80
Max altitude		max		
			m	3000
Resistance & Protect	lion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") Wiring diagrams	34.9 (1.37")	44 (1.73") (0.12") 44 (1.73") (0.12") 34.9 (0.12") (0.12")	(2.28")	RF9 7.6 (0.30"



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



11BG0901D220

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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