11BG0901D024

#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT



Product designation Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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) 4 Rated operational power AC-3 (T≤55°C) 2.2 230V kW 400V kW 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 3 Α 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 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	า		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protec	ction according to IEC/EN 60520			IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	224
Conductor section				
	AWG/kcmil conductor section			
	7 TVV C/Normil Conductor Cooliem	max		12
Auxiliary contact char	acteristics	THOX		
Thermal current Ith	40101101100		Α	10
EC/EN 60947-5-1 de	esignation		,,	A600 - Q600
Operating current AC	•			71000 0000
operating earront 710		230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12	0001		1.7
Operating current bo	12	110V	Α	2.9
Operating current DC	12	1100		2.9
Operating current DC		24\/	٨	2.0
		24V 48V	A A	2.9 1.4
		48 V 60 V	A	1.4
		110V	A	0.6
		110V 125V	A	0.55
		220V	A	0.3
		600V	A	0.3
Operations		0007	A	U. I
Mechanical life			ovoloo	20000000
			cycles	2000000
Electrical life			cycles	500000
Safety related data	10d according to EN/100 40400 4			
Perrormance level B1	0d according to EN/ISO 13489-1		a1	500000
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				



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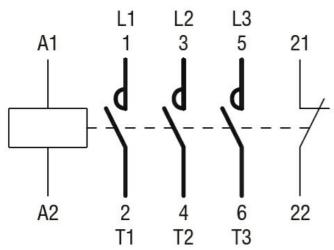
DO note all control control					0.4
DC rated control voltage	ge			V	24
DC operating voltage					
	pick-up			0/11	7-5
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			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
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			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	erformance				
r	for single-phase A	C motor			
	<b>5</b> 1		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC	C motor			-
	21 00 p/1000 / 10	· <del>· · · ·</del>	200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
			37 3/333 V		•

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General USE				
	Contactor	A.C. a	٨	20
01		AC current	Α	20
Short-circuit protec				
	High fault	<b>2</b>		
		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 au	ixiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	3 1	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
(0.173") 4	.4 (7") \$ .60	(1.73") (0.6°)	_	57
(0.17")	(2.24")	0 0 0	(2	.24")
<b>****</b>	<b>9</b>			
	50		282	
	(2)		9	
0 H H Q		46. O H H O G O		
8.5 (0.33") 9.7	7 34.9	3.2 - (1.37") 3.2 - (0.12")		RF9
(0.33") 8.5 (0.33")	8") (1.37")	(0.12)	'	
		44	-	89.2 -7.6 (0.30")
8.5 (0.33")		(1.73")	-	89.2 (3.51") (0.30")
Viring diagrams		*		

#### Wiring diagrams



### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1



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CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

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UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching