11BG0910D024 electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NO

AUXILIARY CONTACT



Product designation Product type designation			Power contactor BG09
Contact characteristics			2000
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		А	20
Operational current le			
•	1 (≤40°C)	А	20
	1 (≤55°C)	А	18
	1 (≤70°C)	А	15
AC-3 (≤440'	. ,	А	9
· ·	-4 (400V)	А	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	А	12
	48V	А	10
	75V	А	4
	110V	А	3
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	А	15
	48V	А	14
	75V	А	9
	110V	А	8
	220V	А	-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	16
	48V	A A	16

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	220V	А	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	Λ	L
The current is in DCT with $L/R \leq 100$ with 4 poles in series	<241	۸	10
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	Α	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	Α	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	8
	48V	А	8
	75V	А	5
	110V	А	4
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	·		
	≤24V	А	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	
IFC may summant to in DC2 DC5 with L/D < 15 me with 4 males in series	220 V	A	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<0.4) /	^	10
	≤24V	A	10
	48V	A	10
	75V	Α	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	Α	10
Making capacity (RMS value)		А	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
· ·····	lth	W	4
	AC-3	W	4 0.81
Tightening torque for terminals	70-3	vv	0.01
inginering longue ion letrinidis		Nime	0.9
	min	Nm Nm	0.8
	max	Nm	1
	min	lbin Ibin	9
The first free free sector free sector free	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



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		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	may		12
	Flexible w/o lug conductor section	max		12
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		2.0
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	· · · · · · · · · · · · · · · · · · ·	min	mm²	1.5
		max	mm²	2.5
Device to make all a sets of				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 rai
				35mm
Weight			g	220
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		•	4.0
Thermal current Ith	nignation		A	10
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15	2201/	^	2
		230V 400V	A A	3 1.9
		400V 500V	A	1.4
Operating current DC	12	500 v	~	1.4
	12	110V	А	2.9
Operating current DC	13	1100	~	2.5
	15	24V	А	2.9
		48V	A	1.4
		40V 60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
	m	nechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
Entre compationity				

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DC rated control voltage	je			V	24
DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out		_		
			min	%Us	10
A	Ham <00%0		max	%Us	25
Average coil consump	$100 \leq 20^{\circ} C$		in ruch	14/	2.2
			in-rush holding	W W	3.2 3.2
Max cycles frequency			noiding	VV	3.2
Max cycles nequency Mechanical operation				cycles/h	3600
Operating times				Cyclc3/II	3000
Average time for Us co	ontrol				
	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	Παλ	1113	20
			min	ms	2
			max	ms	3
		Closing NC			
		J	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	C motor			
			at 480V	A	7.6
	6		at 600V	Α	6.1
Yielded mechanical pe		O mater			
	for single-phase A	au motor	440/4001		0 5
			110/120V	HP	0.5
	for three phase A	C motor	230V	HP	1.5
	for three-phase A		200/208V	HP	2
			200/208V 220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
			0.0,000		-

11BG0910D024 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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General USE				
	Contactor		•	00
Chart aircuit protecti	ion fuer 6001/	AC current	A	20
Short-circuit protecti				
	High fault	Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class		J
	Standard fault			-
		Short circuit current	kA	5
		Fuse rating	А	30
		Fuse class		RK5
	kiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature		° 0	50
		min	°C ℃	-50
	Storage temperature	max	U	+70
	Storage temperature	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	ction			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	(2.24") (2.24"	C C C C C C C C C C C C C C C C C C C	(2.28") 5	57 .24") RF9 9
Wiring diagrams	$ \begin{array}{cccc} L1 & L2 & L3 \\ 1 & 3 & 5 & 13 \\ \hline d & d & d \\ & & \\ \hline \end{array} $			
A2 Certifications and co	2 4 6 14 T1 T2 T3			
Compliance				



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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