11BG0910A024



Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 24VAC, 1NO auxiliary contact



Product designation			Power contactor
Product type designation			BG09
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	0
Operational frequency			05
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-3 (≤440V ≤55°C)	Α	9
	AC-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
	440V 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	A	4
	110V	A	3
	220V	A	-
IEC may autreast to in DC1 with $I/D < 1$ may with 2 solar in parise	2201	~	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0.0.1	•	4 5
	≤24V	A	15
	48V	A	14
	75V	А	9
	110V	Α	8
	220V	Α	-
IEC max current le in DC1 with L/R \leq 1ms with 3 poles in series			
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V		
	2200	A	2

IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series

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	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	А	8
	48V	А	8
	75V	A	5
	110V	A	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-201	,,	
	≤24V	А	10
	48V	A	10
	48V 75V	A	6
	110V	A	5
	220V	A	0,8
IEC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	220 V	~	0,0
The max current le in DC3-DC5 with $L/R \leq 15$ ms with 4 poles in series	<241	۸	10
	≤24V	A	10
	48V	A	10
	75V 110V	A	6 5
		A	
	220V	<u>A</u>	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			00
	gG (IEC)	A	20
	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage		_	
	440V	A	72
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
			9
	max	lbin	•
Tightening torque for coil terminal	max	lbin	
Tightening torque for coil terminal	max min	lbin Nm	0.8
Tightening torque for coil terminal			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min max	Nm Nm	0.8 1



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Conductor section				
	AWG/Kcmil			40
	Elevible w/e lug conductor costion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	Шах		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
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	178
Conductor section				
	AWG/kcmil conductor section			
Audionation	e at estad a e	max		12
Auxiliary contact chara	acteristics		٨	4.0
Thermal current lth	acianation		A	10 A600 - Q600
IEC/EN 60947-5-1 de	-			A600 - Q600
Operating current AC	15	230V	۸	3
		230V 400V	A A	3 1.9
		400V 500V	A	1.9
Operating current DC	12	5007	Α	1.7
opolating barront Do		110V	А	2.9
Operating current DC	13	1100	73	2.0
opolating barront Do		24V	А	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	А	0.55
		220V	А	0.3
		600V	А	0.1
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5			V	24
AC operating voltage				

of 50/60Hz coil powered at 50Hz

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	pick-up			
	plok up	min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz	. .		
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz		١	2.2
		in-rush	VA	30
<u></u>	-0000 5011	holding	VA	4
Dissipation at holding	\$20°C 50Hz		W	0.95
Max cycles frequency Mechanical operation			cycles/h	2600
Operating times			cycles/II	3000
operating times				
Average time for LIs co	ontrol			
Average time for Us co				
Average time for Us co	in AC			
Average time for Us co		min	ms	12
Average time for Us co	in AC	min max	ms ms	12 21
Average time for Us co	in AC Closing NO	min max	ms ms	12 21
Average time for Us co	in AC	max	ms	21
Average time for Us co	in AC Closing NO			
Average time for Us co	in AC Closing NO	max min	ms ms	21 9
Average time for Us co	in AC Closing NO Opening NO	max min	ms ms	21 9
Average time for Us co	in AC Closing NO Opening NO	max min max	ms ms ms	21 9 18
Average time for Us co	in AC Closing NO Opening NO	max min max min	ms ms ms ms	21 9 18 17
Average time for Us co	in AC Closing NO Opening NO Closing NC	max min max min	ms ms ms ms	21 9 18 17
Average time for Us co	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms	21 9 18 17 26
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26 7
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26 7 17 18
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO	max min max min max min max	ms ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO	max min max min max min max min	ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC Closing NC Closing NC Closing NC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 17 18 25 2 3
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC Closing NC Closing NC Closing NC Closing NO Opening NO	max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 17 18 25 2 3 3
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC Closing NC Closing NC Closing NO Closing NO Closing NO Closing NO Closing NC Closi	max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 17 18 25 2 3
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC Closing NC Closing NC Closing NC Closing NO Opening NO	max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 17 18 25 2 3 3 5
Average time for Us co	in AC Closing NO Opening NO Closing NC Opening NC Closing NC Closing NC Closing NO Closing NO Closing NO Closing NO Closing NC Closi	max min max min max min max min max min max	ms ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 17 18 25 2 3 3

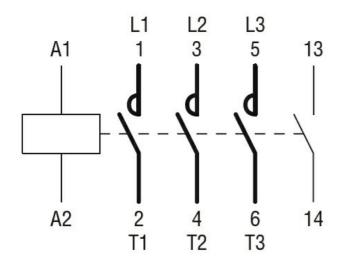
11BG0910A024 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



UL technical data				
	A) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	А	6.1
Yielded mechanical	performance			
	for single-phase AC motor			
	0	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	А	20
Short-circuit protect	ion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
-		Fuse rating	A	30
	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
-				
Temperature				
Temperature	Operating temperature		ŝē	
Temperature	Operating temperature	min	°C	-50
Temperature		min max	°C °C	-50 +70
Temperature	Operating temperature Storage temperature	max	°C	+70
Temperature		maxmin	°C °C	+70 -60
		max	2° 2° 2°	+70 -60 +80
Max altitude	Storage temperature	maxmin	°C °C	+70 -60
Max altitude Resistance & Protect	Storage temperature	maxmin	2° 2° 2°	+70 -60 +80 3000
Max altitude Resistance & Protect Pollution degree	Storage temperature	maxmin	2° 2° 2°	+70 -60 +80
Max altitude Resistance & Protect Pollution degree Dimensions	Storage temperature	max min max	2° 2° 2°	+70 -60 +80 3000
Max altitude Resistance & Protect Pollution degree Dimensions	Storage temperature	max min max	°C °C °C m	+70 -60 +80 3000
Max altitude Resistance & Protect Pollution degree Dimensions 4.4 (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17) (0.17)	Storage temperature	max min max	2° 2° 3° m	+70 -60 +80 3000 3
Max altitude Resistance & Protect Pollution degree Dimensions 44 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.17	Storage temperature	max min max	2° 2° 3° m	+70 -60 +80 3000 3



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Certifications and compliance

Compliance

Compliance	
	CSA C22.2 n° 60947-1
	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