



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		it v	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	0
	AC-3 (≤440V ≤55°C)	А	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
	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 $L/R \le 1$ ms with 1 poles in series	-0.437		4.0
	≤24V	A	12
	48V	A	10
	75V 110V	A A	4 3
	220V	A	
IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series	220 V	A	
The max current le in Der with Err 3 mis with 2 poles in series	≤24V	А	15
	48V	A	14
	48V 75V	A	9
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R $\leq$ 1ms with 3 poles in series	2231		
	≤24V	А	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	А	2



11BG0901A024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NC AUXILIARY CONTACT

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	16
	48V	А	16
	75V	А	10
	110V	А	10
	220V	А	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	А	2
	110V	А	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms 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 $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	А	0,8
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	10
	48V	А	10
	75V	А	6
	110V	А	5
	220V	А	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		А	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	А	72
	500V	А	72
	690V	Α	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			
Power dissipation per pole (average value)			
	AC3	W	0.81
Tightening torque for terminals			
	min		
	may	Nm	
	min		
Tightening torque for coil terminal	min max	lbin	0.74
Tightening torque for coil terminal	min max	lbin Nm	0.74
Tightening torque for coil terminal	min max min max	Ibin Nm Nm	0.74 0.8 1
Tightening torque for coil terminal	min max min max	Ibin Nm Nm Ibft	0.74 0.8 1 0.8



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Max number of wires	s simultaneously connectable		nr.	2
Conductor section				
	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			
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ection according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Тіліну				35mm
Weight			g	180
Auxiliary contact cha	racteristics			
Type of contact				1 NC
Thermal current Ith			А	10
IEC/EN 60947-5-1 d	lesignation			A600 - Q600
Operating current AC	C15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DO	C12			
		110V	А	2.9
Operating current DO	C13			
		24V	А	2.9
		48V	А	1.4
		60V	А	1.2
		110V	А	0.6
		125V	А	0.55
		220V	А	0.3
		600V	А	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
	-	rated load	cycles	500000
	m	echanical load	cycles	20000000
Mirror contats accore	ding to IEC/EN 609474-4-1			yes
EMC compatibility	<u> </u>			Vee

EMC compatibility Yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz V 12 min V 575 max

AC operating voltage

of 50/60Hz coil powered at 50Hz

pick-up

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min    %Us    75      max    %Us    115      drop-out    min    %Us    20      max    %Us    55      of 50/60Hz coil powered at 60Hz    min    %Us    80      pick-up    min    %Us    80      max    %Us    115      drop-out    min    %Us    115      drop-out    max    %Us    55      AC operating voltage at 20°C    AC    AC    55	
drop-out  min  %Us  20    max  %Us  55    of 50/60Hz coil powered at 60Hz	
min    %Us    20      max    %Us    55      of 50/60Hz coil powered at 60Hz	
max    %Us    55      of 50/60Hz coil powered at 60Hz pick-up    min    %Us    80 max      min    %Us    115      drop-out    min    %Us    20 max      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	
pick-up min %Us 80 max %Us 115 drop-out min %Us 20 max %Us 55	
min %Us 80 max %Us 115 drop-out min %Us 20 max %Us 55	
max %Us 115 drop-out min %Us 20 max %Us 55	
drop-out min %Us 20 max %Us 55	
min %Us 20 max %Us 55	
max %Us 55	
Ab operating voltage at 20 0	
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	
in-rush VA 30	
holding VA 4	
Dissipation at holding ≤20°C 50Hz W 0.95	
Max cycles frequency	
Mechanical operation cycles/h 3600	
Operating times	
Average time for Us control	
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	
Opening NC	
min ms 7	
min ms 7 max ms 17	
min ms 7 max ms 17 in DC	
min ms 7 max ms 17 in DC Closing NO	
min ms 7 max ms 17 in DC Closing NO min ms 18	
min ms 7 max ms 17 in DC Closing NO min ms 18 max ms 25	
min ms 7 max ms 17 in DC Closing NO min ms 18 max ms 25 Opening NO	
min ms 7 max ms 17 in DC Closing NO min ms 18 max ms 25 Opening NO min ms 2	
min ms 7 max ms 17 in DC Closing NO Min ms 18 max ms 25 Opening NO Min ms 2 max ms 3	
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 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 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	
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	

## UL technical data

11BG0901A024 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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Full-load current (FLA) for three-phase AC motor			
	at 480V	А	7.6
	at 600V	А	6.1
Yielded mechanical performance			
for single-phase AC motor			
	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
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			
Contactor			
	AC current	А	20
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-40
	max	°C	60
Storage temperature			
	min	°C	-55
	max	°C	70
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
$\begin{array}{c} 4.4 \\ (0.17") \\ (0.17") \\ (0.17") \\ (0.33") \\ (0.33") \\ (0.38") \\ (1.37") \\ (1.$		(2.28") 5	57 .24") RF9

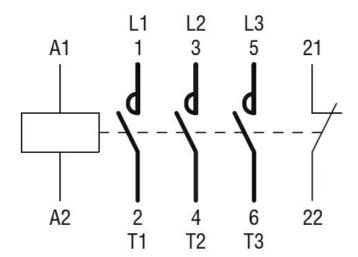
— 44 — (1.73")

8.5 \_

8.5 (0.33") Wiring diagrams -

-7.6 (0.30")





## Certifications and compliance

## Compliance

Certificates

CSA C	22.2 n° 60947-1		
CSA C	22.2 n° 60947-4-1		
IEC/EN	l 60947-1		
IEC/EN	l 60947-4-1		
UL 609	947-1		
UL 609	)47-4-1		
CCC			
cULus			
EAC			