



Product designation Product type designation			Power contactor BG09
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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	А	18
	AC-1 (≤70°C)	А	15
	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			
	≤24V	А	12
	48V	A	10
	75V	A	4
	110V	A	3
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
IFC may autrent to in DC4 with 1/D < 4ma with 2 materia and	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	-0111	۸	16
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10



11BG0910A02460 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ,

24VAC, 1NO AUXILIARY CONTACT 220V 2 А IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series

ILC max current le m DCT with L/IC 3 mis with 4 poles in series				
	≤24V	А	16	
	48V	А	16	
	75V	А	10	
	110V	A	10	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201	73	_	
	≤24V	А	7	
	≤24V 48V	A		
			6	
	75V	A	2	
	110V	A	1	
	220V	A	-	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series				
	≤24V	Α	8	
	48V	Α	8	
	75V	А	5	
	110V	Α	4	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	10	
	48V	А	10	
	75V	A	6	
	110V	A	5	
	220V	A	0,8	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V	Λ	0,0	
IEC max current le in DC3-DC3 with L/K = 15ms with 4 poles in series	<241/	А	10	
	≤24V		10	
	48V	A	10	
	75V	A	6	
	110V	A	5	
	220V	A	0,8	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96	
Protection fuse				
	gG (IEC)	А	20	
	aM (IEC)	A	10	
Making capacity (RMS value)		Α	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	0.81	
Tightening torque for terminals	//0/0	••	0.01	
	min	Nim	0.8	
	min	Nm Nm		
	max	Nm	1	
	min	Ibin	9	
	max	lbin	9	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	9	



AC coil operating

11BG0910A02460 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 24VAC, 1NO AUXILIARY CONTACT

Maxaninahan (max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			10
	Flovible w/o 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	тах		2.0
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor sectio			
	· · · · · · · · · · · · · · · · · · ·	min	mm²	1.5
		max	mm²	2.5
				IP20 when
·	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai 35mm
Weight			g	179
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12		-	
0 11 17 1	10	110V	A	2.9
Operating current DC	13			
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V 125V	A	0.6 0.55
		125V 220V	A A	0.55 0.3
		600V	A	0.1
Operations		0001		V .1
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			0,000	200000
	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		,	yes
EMC compatibility	Č			yes
				,



11BG0910A02460 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 24VAC, 1NO AUXILIARY CONTACT

Rated AC voltage	at 60Hz			V	24
AC operating volta	-				
	of 60Hz coil pov				
		pick-up		0/11	
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
C average coil co	onsumption at 20°C		max	/003	55
te average con et		powered at 50Hz			
	0.00,001.200.		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz	Ŭ		
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pov	wered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at hold	-			W	0.95
lax cycles freque					
Aechanical operati	ion			cycles/h	3600
Operating times					
verage time for U					
	in AC				
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	max	1115	21
		opoling ito	min	ms	9
			max	ms	18
		Closing NC			
		Closing NC	min	ms	17
		Closing NC	min max	ms ms	17 26
		Closing NC Opening NC			
					26 7
			max	ms	26
	in DC	Opening NC	max min	ms ms	26 7
	in DC		max min max	ms ms ms	26 7 17
	in DC	Opening NC	max min max min	ms ms ms ms	26 7 17 18
	in DC	Opening NC Closing NO	max min max	ms ms ms	26 7 17
	in DC	Opening NC	max min max min max	ms ms ms ms ms	26 7 17 18 25
	in DC	Opening NC Closing NO	max min max min max min	ms ms ms ms ms ms	26 7 17 18 25 2
	in DC	Opening NC Closing NO Opening NO	max min max min max	ms ms ms ms ms	26 7 17 18 25
	in DC	Opening NC Closing NO	max min max min max min max	ms ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Opening NC Closing NO Opening NO	max min max min max min max min	ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3
	in DC	Opening NC Closing NO Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms	26 7 17 18 25 2 3
	in DC	Opening NC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5
	in DC	Opening NC Closing NO Opening NO Closing NC	max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5 11
L technical data	in DC	Opening NC Closing NO Opening NO Closing NC	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5
		Opening NC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5 11
JL technical data Full-load current (F	in DC	Opening NC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	26 7 17 18 25 2 3 3 5 11

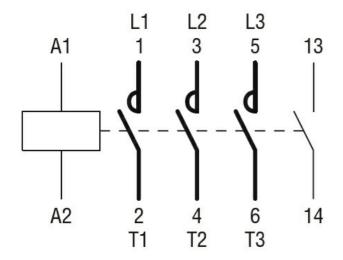
11BG0910A02460 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Yielded mechanical	-			
	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
General USE				
	Contactor			
		AC current	А	20
Short-circuit protecti	on fuse, 600V			
	High fault			
	5	Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			-
		Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class	7.	RK5
Contact rating of au	kiliary contacts according to UL			A600 - Q600
Ambient conditions				1000 0000
Temperature				
romporataro	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature	IIIdx	C	+70
	Storage temperature	min	°C	-60
		min	°C	+80
		max		
Max altitude			m	3000
Resistance & Protec				<u>^</u>
Pollution degree				3
Dimensions				
44 4.4 (0.17")			(2.28") 5	57
(0.33") 8.5 (0.33") 8.5 (0.33") (0.38"	") (1.37")	(1.37 ⁻) (0.12"		RF9

Wiring diagrams





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