



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 DC1 with 1/D < tree with 2 nates in a min	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



11BG0910A04860 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ,

48VAC, 1NO AUXILIARY CONTACT

	220V	۸	2
	2200	A	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		-	
	≤24V	A	16
	48V	А	16
	75V	Α	10
	110V	Α	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	A	6
	48V 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	А	8
	75V	А	5
	110V	A	4
	220V	A	-
IEC may summat be in DC2 DCE with $1/D < 45$ may with 2 malos in series	2201	~	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	A	10
	48V	А	10
	75V	Α	6
	110V	Α	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	A	10
	48V 75V	A	
			6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	А	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage		73	02
breaking capacity at voltage	4 4 0 1 /	^	70
	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
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nim	0.8
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	111111		0



AC coil operating

11BG0910A04860 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 48VAC, 1NO AUXILIARY CONTACT

lbin 9 max 2 Max number of wires simultaneously connectable Nr. Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² 0.75 mm² 2.5 max Flexible c/w lug conductor section 1.5 min mm² max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min mm² 2.5 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 177 g Conductor section AWG/kcmil conductor section 12 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 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 20000000 cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 500000 rated load cycles mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes



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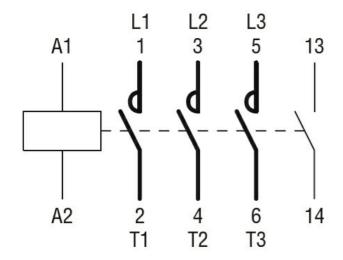
. alou / e / e lage e	it 60Hz			V	48
AC operating voltag					
	of 60Hz coil po	owered at 60Hz			
		pick-up			
			min	%Us	75
		drop out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
AC average coil co	nsumption at 20°C		Пал	/000	00
5		il powered at 50Hz			
		•	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coi	il powered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	owered at 60Hz			0.0
			in-rush	VA	30
Discipation at holding			holding	VA W	4 0.95
Dissipation at holdi Max cycles frequen	-			VV	0.90
Max cycles frequent				cycles/h	3600
Operating times				eyelee/11	0000
Average time for U	s control				
0	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC	min	me	17
			min max	ms ms	26
		Opening NC	Шал	1115	20
		opening No	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		Closing NO	min	ms	18
			min max	ms ms	18 25
		Closing NO Opening NO	max	ms	25
			max	ms ms	25 2
		Opening NO	max	ms	25
			max min max	ms ms ms	25 2 3
		Opening NO	max min max min	ms ms ms	25 2 3 3
		Opening NO Closing NC	max min max	ms ms ms	25 2 3
		Opening NO	max min max min max	ms ms ms ms ms	25 2 3 3 5
		Opening NO Closing NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5 11
JL technical data		Opening NO Closing NC	max min max min max	ms ms ms ms ms	25 2 3 3 5
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5 11
<mark>UL technical data</mark> Full-load current (F	LA) for three-phase	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	25 2 3 3 5 11



Yielded mechanica	I performance			
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2007		1.0
	tor three-phase AC motor	200/2081/	ЦП	0
		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 protec	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	30
		Fuse class	~	J
	Standard fault	T use class		5
	Standard Tault		1. 4	-
		Short circuit current	kA	5
		Fuse rating	A	30
		Fuse class		RK5
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	3			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	0.0.030 top 0.0.0.0	min	°C	-60
		max	°Č	+80
Max altitude		Шах		3000
	action		m	3000
Resistance & Prote				<u>^</u>
Pollution degree				3
Dimensions				
4.4 (0.17") (0		94.2 (3.371°) (3.71°) (3.71°) (3.71°) (3.71°) (1°) (1°) (1°) (1°)	(228") 5	57
8.5 (0.33") (0.33") (0.33") (0.33") (0.33") (0.33")	7,	(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