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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			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le			
	AC-1 (=40°C)	А	20
	AC-1 (=55°C)	A	18
	AC-1 (=70°C)	A	15
	AC-3 (=440V =55°C)	A	9
	AC-4 (400V)	A	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	Α	3
	220V	Α	_
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	Α	-
IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
	=24V	А	16
	48V	А	16
	75V	А	10



11BG0910A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 230VAC, 1NO AUXILIARY CONTACT

ENERGY AND AUTOMATION IRREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 230VAC, 1NO AUXILIARY CONTACT 220V A 2 IEC max current le in DC1 with L/R = 1ms with 4 poles in series -24V A 16

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 = 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	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	0,8
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series	2201	7.	0,0
	=24V	А	10
	48V	A	10
	46 V 75 V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	96
Protection fuse		~	30
	gG (IEC)	А	20
	- · ·	A	10
Making capacity (PMS value)	aM (IEC)	A A	92
Making capacity (RMS value)		A	92
Breaking capacity at voltage	4 4 0 1 /	^	70
	440V 500V	A A	72 72
	500V 690V		
	690 v	A	72
Resistance per pole (average value)		m?	10
Power dissipation per pole (average value)	14	147	
	lth	W	4
The first for the second for the second second	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9



11BG0910A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 230VAC, 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 1.5 mm² min mm² 2.5 max Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features Operating position normal Vertical plan ±30° allowable Screw / DIN rail Fixing 35mm Weight 187 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 А 1.9 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V 1.4 А 60V А 1.2 110V А 0.6 125V А 0.55 220V А 0.3 600V А 0.1 Operations 20000000 Mechanical life cycles Electrical life 500000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 500000 cycles 20000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating Rated AC voltage at 60Hz V 230

11BG0910A23060 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



AC operating voltage of 60Hz coil powered at 60Hz pick-up %Us 75 min %Us 115 max drop-out %Us 20 min %Us 55 max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz VA 30 in-rush VA holding 4 of 50/60Hz coil powered at 60Hz VA in-rush 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 21 max ms **Opening NO** 9 min ms 18 max ms **Closing NC** min ms 17 26 ms max **Opening NC** 7 min ms 17 max ms in DC Closing NO 18 min ms 25 max ms **Opening NO** 2 min ms 3 max ms Closing NC 3 min ms 5 max ms **Opening NC** 11 min ms 17 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V 7.6 А at 600V А 6.1

Yielded mechanical performance

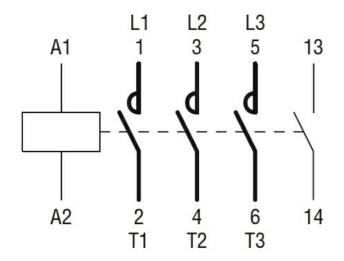


11BG0910A23060 THREE-POLE CONTACTOR, IEC OPERATING

CURRENT IE (AC3) = 9A, AC COIL 60HZ,
230VAC, 1NO AUXILIARY CONTACT

for single-phase AC motor			
5 1	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
Contactor			
	AC current	А	20
on 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	А	30
kiliary contacts according to UL			A600 - Q600
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
		m	3000
ction		m	
tion		m	
tion	(1.73")	m	3000
	on fuse, 600V High fault Standard fault illiary contacts according to UL	110/120V 230V for three-phase AC motor 200/208V 220/230V 460/480V 220/230V 460/480V 575/600V 575/600V Contactor AC current on fuse, 600V High fault Short circuit current Fuse rating Fuse class Standard fault Short circuit current Fuse rating Fuse rating illiary contacts according to UL Operating temperature min max Storage temperature min	110/120V HP 230V HP for three-phase AC motor 200/208V HP 220/230V HP 460/480V HP 575/600V HP Contactor AC current A on fuse, 600V High fault Short circuit current kA Fuse class Fuse class Standard fault Short circuit current kA Fuse class Standard fault Short circuit current kA Fuse rating A A Standard fault Coperating temperature min °C Operating temperature min °C max °C Storage temperature min °C °C





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