



Product designation Product type designation			Power contactor BF09
Contact characteristics			51.00
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	25
Operational current le			
	AC-1 (≤40°C)	А	25
	AC-1 (≤55°C)	А	20
	AC-1 (≤70°C)	А	18
	AC-3 (≤440V ≤55°C)	А	9
	AC-4 (400V)	А	4.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	15
	48V	A	13
	75V	A	12
	110V	A	6
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	-0 A) (10
	≤24V	A	18
	48V	A	18
	75V	A	17
	110V	A	12
IEC may ourrant to in DC1 with L/D < 1mg with 2 pales in series	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series	20 AV /	۸	20
	≤24V	A	20
	48V	A	20
	75V 110V	A	20
	110V	А	15



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

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220V А 10 IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series ≤24V 20 А 48V А 20 75V 20 А 110V А 16 220V А 12 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 10 48V 9 А 75V 8 А 110V 2 А 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V А 13 48V 11 А 75V А 10 110V 7 А 220V А 2 IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series ≤24V А 15 48V 15 А 75V 13 А 110V А 11 220V 6 А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series ≤24V А 15 48V А 15 75V 15 А 110V А 12 220V А 7 Short-time allowable current for 10s (IEC/EN60947-1) А 150 Protection fuse gG (IEC) 25 A aM (IEC) А 10 Making capacity (RMS value) 90 А Breaking capacity at voltage 440V А 72

	690V	А	71
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	1.6
	AC-3	W	0.2
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8

500V

72

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Max number of wires		max	Ibin Nr.	0.74
Conductor section	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
	AWG/KCIIII	may		10
	Flexible w/o lug conductor section	max		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	IIIdA		0
	The side of what conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			4
	Therefore with insulated space by conductor section	min	mm²	1
		max	mm²	4
		Пах		IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rai
Fixing				35mm
Weight			g	352
Conductor section			-	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			А	10
IEC/EN 60947-5-1 de	signation			A600 - P600
Operating current AC	15			
		230V	А	3
		400V	А	1.9
		500V	А	1.4
Operating current DC	12			
		110V	А	5.7
Operating current DC	13			
		24V	А	5.7
		48V	A	2.9
		60V	A	2.3
		110V	A	1.25
		125V	A	1.1
		220V	A	0.55
		600V	А	0.2
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	2000000
Safety related data				
	0d according to EN/ISO 13489-1			
		rated load	cycles	2000000
	r	nechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		2,0.00	yes
EMC compatibility				yes
AC coil operating				,

BF0910A23060 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



BF0910A23060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 230VAC, 1NO AUXILIARY CONTACT

Rated AC voltage at 60Hz V 230 AC operating voltage of 60Hz coil powered at 60Hz pick-up min %Us 80 %Us 110 max drop-out %Us 20 min %Us 55 max AC average coil consumption at 20°C of 60Hz coil powered at 60Hz 75 in-rush VA holding VA 9 Dissipation at holding ≤20°C 50Hz W 2.5 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC **Closing NO** 8 min ms max ms 24 **Opening NO** min ms 10 20 max ms **Closing NC** 14 min ms max ms 28 **Opening NC** min ms 7 18 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 7.6 at 600V 0.375 А Yielded mechanical performance for single-phase AC motor 110/120V HP 0.75 230V HP 2

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		575/600V	HP	7.5
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
	ation fund. 6001/			

200/208V

220/230V

460/480V

HP

HP

HP

3

3

5

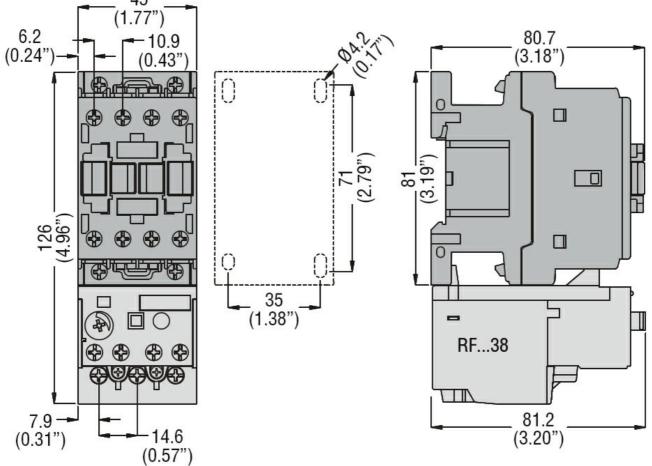
Short-circuit protection fuse, 600V High fault

for three-phase AC motor



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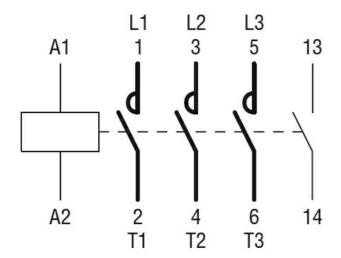
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	60
Contact rating of au	xiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				
-	45			



Wiring diagrams

BF0910A23060





Certifications and compliance

Compliance

Compliance	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN/BS 60947-1
	IEC/EN/BS 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC
	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching