



Product designation Product type designation			Power contactor BF09
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		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	А	15
	48V	А	13
	75V	А	12
	110V	А	6
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	17
	110V	А	12
	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	А	15



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC 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 А 20 20 48V А 75V 20 A 110V А 16 220V 12 А IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series ≤24V А 10 48V А 9 75V 8 A 110V А 2 220V А _ IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series ≤24V A 13 48V 11 А 75V А 10 110V 7 А 0001 ~

	220V	А	2	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	15	
	48V	А	15	
	75V	А	13	
	110V	А	11	
	220V	А	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
	≤24V	А	15	
	48V	А	15	
	75V	А	15	
	110V	А	12	
	220V	А	7	
Short-time allowable current for 10s (IEC/EN60947-1)		А	150	
Protection fuse				
	gG (IEC)	А	25	
	aM (IEC)	А	10	
Making capacity (RMS value)		А	90	
Breaking capacity at voltage				
	440V	А	72	
	500V	А	72	
	690V	А	71	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	1.6	
	AC3	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

min

Nm

lbft

1

0.8



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT

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lbft 0.74 max Max number of wires simultaneously connectable nr. 2 Conductor section Flexible w/o lug conductor section min mm² 1 mm² 6 max Flexible c/w lug conductor section min mm² 1 mm² 4 max Flexible with insulated spade lug conductor section min mm² 1 mm² 4 max Power terminal protection according to IEC/EN 60529 IP20 when wired Mechanical features Operating position Vertical plan normal allowable ±30° Screw / DIN rail Fixing 35mm Weight 348 g Auxiliary contact characteristics 1 NC Type of contact Thermal current Ith 10 А IEC/EN 60947-5-1 designation A600 - P600 **Operating current AC15** 230V А 3 400V А 1.9 500V А 1.4 Operating current DC12 110V 5.7 А **Operating current DC13** 24V А 5.7 48V А 2.9 60V А 2.3 110V А 1.25 125V А 1.1 220V А 0.55 600V А 0.2 Operations Mechanical life 20000000 cycles Electrical life 2000000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 2000000 rated load cycles 20000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes V Rated AC voltage at 60Hz 220 AC coil operating AC operating voltage

of 60Hz coil powered at 60Hz

pick-up

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT

		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	75
		holding	VA VA	9
	of 50/60Hz coil powered at 60Hz	noiding	٧٨	3
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	lioiding		0.0
	0. 00. <u>-</u> 00. point at 00. <u>-</u>	in-rush	VA	75
		holding	VA	9
Dissipation at holding	g ≤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			
		min	ms	8
		max	ms	24
	Opening NO	_		
		min	ms	10
		max	ms	20
	Closing NC			
		min	ms	14
	Opening NC	max	ms	28
	Opening NC	min	ms	7
		max	ms	, 18
UL technical data			inio	
	A) for three-phase AC motor			
	,	at 480V	А	7.6
		at 600V	А	0.375
Yielded mechanical p	performance			
	for single-phase AC motor			
		110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE	6			
	Contactor	•••		05
	A 11	AC current	A	25
	Auxiliary contacts			<u> </u>
		AC voltage	V	600
		AC current	A V	10
		DC voltage DC current	V A	250 1
Short-circuit protection	on fuse 600V		А	1
Short-circuit protectio				

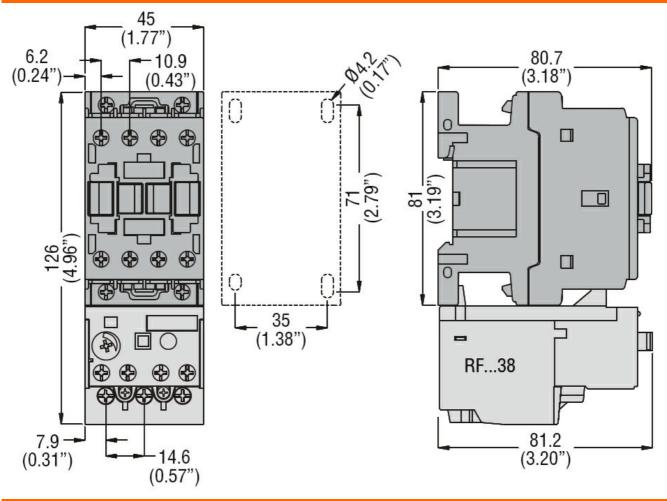


BF0901A22060 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 220VAC, 1NC AUXILIARY CONTACT

	220VAC, 1	NC AU	XILIARY CONTACT
High fault			
-	Short circuit current	kA	100
	Fuse rating	А	30
	Fuse class		J
Standard fault			

Short circuit current kΑ 5 60 Fuse rating А A600 - P600 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C min -60 °C 80 max Max altitude 3000 m Resistance & Protection Pollution degree 3

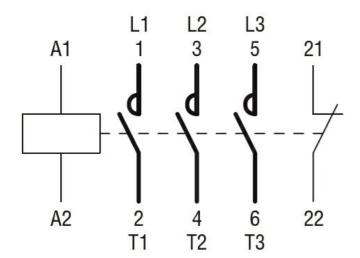
Dimensions



Wiring diagrams

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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