



		•
Product designation		Power contactor
Product type designation		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 (≤4)	0°C) A	25
AC-1 (≤5	5°C) A	20
AC-1 (≤70	O°C) A	18
AC-3 (≤440V ≤5	5°C) A	9
AC-4 (40	A (V0C	4.9
Rated operational power AC-3 (T≤55°C)		
	30V kW	2.2
4	00V kW	4.2
4	15V kW	4.5
4	40V kW	4.8
5	00V kW	5.5
6	90V kW	/ 7.5
Rated operational power AC-1 (T≤40°C)		
2	30V kW	/ 9.5
4	00V kW	/ 16
5	00V kW	/ 21
6	90V kW	/ 27
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		
2	24V A	15
	48V A	13
	75V A	12
1	10V A	6
2	20V A	-
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		
2	24V A	18
	48V A	18
	75V A	17
1	10V A	12
2	20V A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		
	24V A	20
=		
	48V A	20
	48V A 75V A	20 20



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

	220V	А	10	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	Α	20	
	48V	А	20	
	75V	А	20	
	110V	А	16	
	220V	A	12	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	2201		12	
TEO max current le in DOO-DOO with Ert 3 Toms with 1 poles in series	<2417	۸	10	
	≤24V	A	10	
	48V	A	9	
	75V	A	8	
	110V	А	2	
	220V	Α	-	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series				
	≤24V	А	13	
	48V	А	11	
	75V	A	10	
	110V	A	7	
	220V	A	2	
IFC may summant to in DC2 DC5 with 1/D < 15 may with 2 males in series	220 V	A	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			4.5	
	≤24V	A	15	
	48V	А	15	
	75V	Α	13	
	110V	Α	11	
	220V	А	6	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series				
· · · · ·	≤24V	А	15	
	48V	A	15	
	75V	A	15	
	110V	A	12	
			7	
	220V	A		
Short-time allowable current for 10s (IEC/EN60947-1)		А	150	
Protection fuse				
	gG (IEC)	Α	25	
	aM (IEC)	Α	10	
Making capacity (RMS value)		А	90	
Breaking capacity at voltage				
	440V	А	72	
	500V	A	72	
	690V	A	71	
Resistance per pole (average value)	030 V	mΩ	2.5	
Resistance per pole (average value)		11177	2.0	
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	lbin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal	max			
		Nine	0.0	
	min	Nm	0.8	
	max	Nm	1	
	min	lbin	0.8	

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, 1NC AUXILIARY CONTACT

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lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 10 Flexible w/o lug conductor section min mm² 1 mm² 6 max Flexible c/w lug conductor section 1 min mm² max mm² 4 Flexible with insulated spade lug conductor section mm² 1 min mm² 4 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 496 g Conductor section AWG/kcmil conductor section 10 max Auxiliary contact characteristics Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - P600 Operating current AC15 230V А 3 400V 1.9 А 500V А 1.4 Operating current DC12 110V А 5.7 **Operating current DC13** 24V А 5.7 48V А 2.9 60V A 2.3 110V А 1.25 125V А 1.1 220V А 0.55 600V 0.2 А 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 mechanical load 20000000 cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes DC coil operating

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DC rated control voltage	je			V	125
DC operating voltage					
	pick-up			0/11	70
			min	%Us	70
	drap out		max	%Us	125
	drop-out		min	%Us	10
			max	%Us	40
Average coil consump	tion ≤20°C		тах	/000	10
······································			in-rush	W	5.4
			holding	W	5.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			0
			min	ms	8
		Opening NO	max	ms	24
		Opening NO	min	me	10
			max	ms ms	20
		Closing NC	Παλ	1113	20
		Clocking I to	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO	min	-	1 1
			min max	ms ms	14 17
		Closing NC	Παλ	1113	17
			min	ms	24
			max	ms	30
		Opening NC		·	
			min	ms	47
			max	ms	57
UL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	A	7.6
Waldad state			at 600V	Α	0.375
Yielded mechanical pe		C motor			
	for single-phase A		110/120V	ЦБ	0.75
			110/120V 230V	HP HP	0.75 2
	for three-phase A	2 motor	2307	ΠF	۷
	ior unee-phase At		200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	7.5

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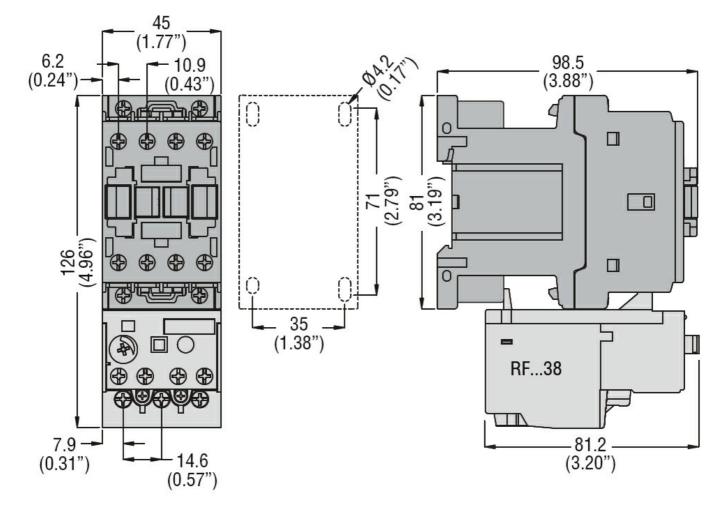
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



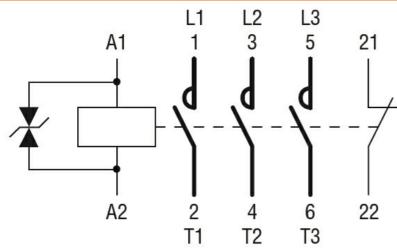
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect				
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
_	ixiliary 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			
Impact resistance				""
Pollution degree				3
Dimensions				



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 125VDC, **1NC AUXILIARY CONTACT**



Wiring diagrams



Certifications and 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	

Certificates



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	CCC				
	cULus				
	EAC				
assification					
				=	

ETIM 8.0

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EC000066 -Power contactor, AC switching