



BF0901A57560

## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 575VAC, 1NC AUXILIARY CONTACT



Product designation Power contactor Product type designation **BF09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency min Ηъ 25 Hz 400 max IEC Conventional free air thermal current Ith 25 Α Operational current le AC-1 (≤40°C) Α 25 AC-1 (≤55°C) Α 20 AC-1 (≤70°C) Α 18 AC-3 (≤440V ≤55°C) Α 9 AC-4 (400V) 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 ≤ 1ms with 1 poles in series ≤24V Α 15 48V Α 13 75V Α 12 110V Α 6 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 18 48V Α 18 75V 17 Α 110V Α 12 220V Α 1 IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V 20 Α 20 48V Α 75V Α 20 15 110V





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	0001/	٨	40
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220V	A	10
incomax current le in DOT with E/R = This with 4 poles in series	≤24V	Α	20
	48V	A	20
	75V	A	20
	110V	A	16
	220V	Α	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			· <del>-</del>
	≤24V	Α	10
	48V	Α	9
	75V	Α	8
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	13
	48V	Α	11
	75V	Α	10
	110V	Α	7
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	Α	15
	48V	Α	15
	75V	Α	13
	110V	Α	11
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	12
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	25
	aM (IEC)	Α	10
Making capacity (RMS value)		Α	90
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	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	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8





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		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	El. The Arterior Later and Co.	max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Flovible o/w lug conductor coction	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	IIIax	111111	4
	r lexible with insulated space tug conductor section	min	mm²	1
		max	mm²	4
		max		IP20 when
Power terminal proted	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	356
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	:12			
		110V	Α	5.7
Operating current DC	:13			
		24V	Α	5.7
		48V	Α	2.9
		60V	A	2.3
			Λ	1.25
		110V	A	4 4
		125V	Α	1.1
		125V 220V	A A	0.55
Operations		125V	Α	
		125V 220V	A A A	0.55 0.2
Mechanical life		125V 220V	A A A cycles	0.55 0.2 20000000
Mechanical life Electrical life		125V 220V	A A A	0.55 0.2
Mechanical life Electrical life Safety related data	Independing to EN/ISO 42490.4	125V 220V	A A A cycles	0.55 0.2 20000000
Operations Mechanical life Electrical life Safety related data Performance level B1	10d according to EN/ISO 13489-1	125V 220V 600V	A A A cycles	0.55 0.2 20000000 2000000
Mechanical life Electrical life Safety related data	-	125V 220V 600V rated load	A A A cycles cycles	0.55 0.2 20000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B1	me	125V 220V 600V	A A A cycles	0.55 0.2 20000000 2000000 2000000 20000000
Mechanical life Electrical life Safety related data Performance level B1	-	125V 220V 600V rated load	A A A cycles cycles	0.55 0.2 20000000 2000000 2000000





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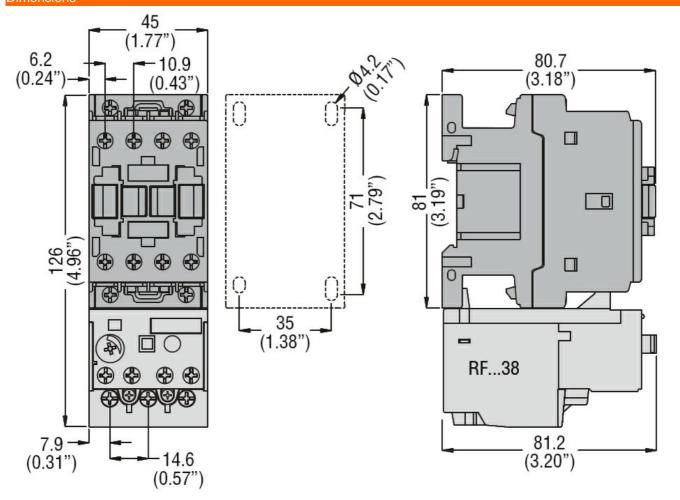
Rated AC voltage at 6	0Hz			V	575
AC operating voltage					
	of 60Hz coil powered a				
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil cons					
	of 60Hz coil powered a	t 60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding				W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c	ontrol				
	in AC				
		Closing NO			
		-	min	ms	8
			max	ms	24
		Opening NO			
			min	ms	10
			max	ms	20
		Closing NC			
		J	min	ms	14
			max	ms	28
		Opening NC			
		. 0	min	ms	7
			max	ms	18
UL technical data					
	) for three-phase AC mot	or			
`	,		at 480V	Α	7.6
			at 600V	Α	0.375
Yielded mechanical pe	erformance				
	for single-phase AC me	otor			
	.s. sg.o p.1000 / 10 111		110/120V	HP	0.75
			230V	HP	2
	for three-phase AC mo	tor	2001	• • •	
	ioi unos phase no mo		200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	7.5
General USE			3.0,000 V	• • • • • • • • • • • • • • • • • • • •	
Contra COL	Contactor				
	Jonado		AC current	Α	25
	Auxiliary contacts		AO CUITEIR		۷
	Auxiliary Contacts		AC voltage	V	600
			AC vollage AC current		10
				A V	250
			DC voltage DC current		
Chart aircuit protection	o fue o 600\/		DC current	A	1
Short-circuit protection					
	High fault				





### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 575VAC, INC AUXILIARY CONTACT

		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
Stand	lard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
Contact rating of auxiliary con-	tacts according to UL			A600 - P600
Ambient conditions				
Temperature				
Opera	ating temperature			
		min	°C	-50
		max	°C	70
Stora	ge temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				

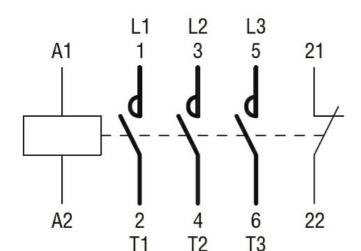


Wiring diagrams

575VAC, 1NC AUXILIARY CONTACT



**ENERGY AND AUTOMATION** 



### 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

CCC

cULus

**EAC** 

ETIM classification

ETIM 8.0

BF0901A57560

EC000066 -Power contactor, AC switching