electric THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 24VDC, 1NC **AUXILIARY CONTACT ENERGY AND AUTOMATION**



Product designation			Power contactor
Product type designation			BF09
Contact characteristics		N I	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		1.1-	0.5
	min	Hz	25
IFO Commention of free painth annual assessment life	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Operational current le	AO 4 (440°O)	Δ.	0.5
	AC-1 (≤40°C)	A	25
	AC-1 (≤55°C)	A	20
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	A	9
D. I. J	AC-4 (400V)	Α	4.9
Rated operational power AC-3 (T≤55°C)	0001/		2.2
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
D-t1	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)	0001	1-107	٥.5
	230V	kW	9.5
	400V	kW	16
	500V 690V	kW kW	21 27
IEC may current to in DC1 with L/D < 1 mg with 1 notes in paries	090 V	KVV	
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	<0.417	۸	4.5
	≤24V 48V	A	15
	46 V 75 V	A A	13 12
	110V	A	6
	220V	A	0
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V		
120 max current le in DOT with E/N 3 mis with 2 poles in series	≤24V	۸	18
	≤24∨ 48V	A A	18
	75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		<u> </u>
TEO THAN OUT OUT DO I WILL LITE IT IN WILL O POICS IT SCHOOL	≤24V	Α	20
	48V	A	20
	75V	A	20
	110V	A	15
	1100	7.	.0

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	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤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	A	10
	110V	A	7
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201		
TEO MAX CUITETILIE III DOG-DOG WILLI LIN > 101115 WILLI 3 POLES III SELIES	20AV	۸	15
	≤24V 48V	A	15 15
		A	15
	75V	A	13
	110V	A	11
	220V	A	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)	300.	mΩ	2.5
Power dissipation per pole (average value)		.1134	
1 ones dissipation per pero (average value)	Ith	W	1.6
	AC-3	W	0.2
Tightening torque for terminals	70-3	v v	0.2
rightening torque for terminals	min	Nim	1.5
	min	Nm Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
This is the state of the state	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



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		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	_		
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	_		
		min	mm²	1
		max	mm²	4
Power terminal prote	ection according to IEC/EN 60529			IP20 when
	<u> </u>			properly wired
Mechanical features				
Operating position		narmal		Vertical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	490
Conductor section			9	430
Conductor Section	AWG/kcmil conductor section			
	AWG/KCITIII COTIQUETOT Section	max		10
Auxiliary contact cha	racteristics	IIIdX		10
Thermal current Ith	Tactoristics		А	10
IEC/EN 60947-5-1 d	esignation		- / (A600 - P600
Operating current AC				7.000 1.000
oporating ourroin 710		230V	Α	3
		400V	A	1.9
		500V	A	1.4
On a ratio a accurant DC	212	0001		
Oberatino current Du				
Operating current DC) I Z	110\/	Δ	5.7
		110V	Α	5.7
		24V	Α	5.7
		24V 48V	A A	5.7 2.9
		24V 48V 60V	A A A	5.7 2.9 2.3
		24V 48V 60V 110V	A A A	5.7 2.9 2.3 1.25
		24V 48V 60V 110V 125V	A A A A	5.7 2.9 2.3 1.25 1.1
		24V 48V 60V 110V 125V 220V	A A A A	5.7 2.9 2.3 1.25 1.1 0.55
Operating current DO		24V 48V 60V 110V 125V	A A A A	5.7 2.9 2.3 1.25 1.1
Operating current DO Operations		24V 48V 60V 110V 125V 220V	A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life		24V 48V 60V 110V 125V 220V	A A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life Electrical life		24V 48V 60V 110V 125V 220V	A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life Electrical life Safety related data	213	24V 48V 60V 110V 125V 220V	A A A A A A	5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DO Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current DO Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Operating current DO Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000



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DC rated control voltage	je			V	24
DC operating voltage					
	pick-up				
			min	%Us	70
			max	%Us	125
	drop-out				
			min	%Us	10
			max	%Us	40
Average coil consumpt	tion ≤20°C				
			in-rush	W	5.4
Maria de la compania del compania del compania de la compania del compania de la compania de la compania del la compania del compania d			holding	W	5.4
Max cycles frequency				ay ralaa/b	2000
Mechanical operation Operating times				cycles/h	3600
Average time for Us co	entrol				
Average time for US Co	in AC				
	III AC	Closing NO			
		Closing 140	min	ms	8
			max	ms	24
		Opening NO			
		-1 - 3 -	min	ms	10
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC	0			
		Closing NO			5 4
			min	ms	54 66
		Opening NO	max	ms	00
		Opening NO	min	ms	14
			max	ms	17
		Closing NC	THO A		
		515.1.9	min	ms	24
			max	ms	30
		Opening NC			
			min	ms	47
			max	ms	57
UL technical data					
Full-load current (FLA)	for three-phase A	AC motor			
			at 480V	Α	7.6
			at 600V	Α	0.375
Yielded mechanical pe					
	for single-phase	e AC motor	440/4001	LID	0.75
			110/120V	HP	0.75
	for three phase	AC motor	230V	HP	2
	for three-phase	AC IIIUIUI	200/208V	HP	3
			220/230V	пе HP	3
			460/480V	HP	5
			575/600V	HP	7.5
			2.5,000		-



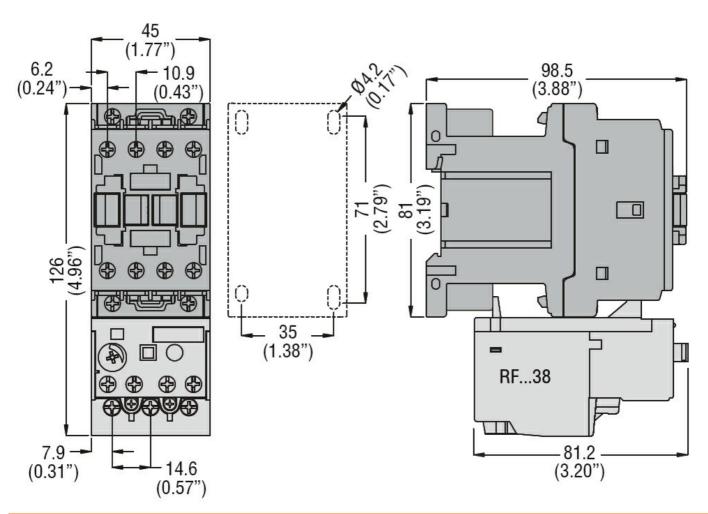
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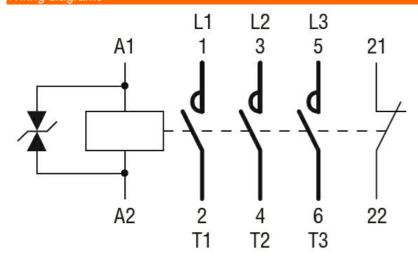
General USE				
General GGL	Contactor			
	Contactor	AC current	Α	25
	Auxiliary contacts			
	,	AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protecti	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
	ciliary 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 & Protect	tion			
Impact resistance				1111
Pollution degree				3
Dimensions				

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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

BF0901D024



BF0901D024

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CCC				
cULus	_	_		
EAC				

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching