

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			Broo
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	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm ² wire and fork end	lugA	60
	AC-1 (≤55°C)	А	45
	AC-1 (≤55°C) with 16mm ² wire and fork end	-	48
	AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm ² wire and fork end	-	42
	AC-3 (≤440V ≤55°C)	A	38
Deted operational power AC 2 (T <ee°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>15.5</td></ee°c)<>	AC-4 (400V)	A	15.5
Rated operational power AC-3 (T≤55°C)	2201/		4.4
	230V 400V	kW kW	11 18.5
	400 V 415 V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms wit	h 1 poles in series		
	≤24V	А	35
	48V	А	30
	75V	Α	23
	110V	A	8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms wit	•	^	20
	≤24V 48V	A	36
	48V 75V	A A	34 29
	73V 110V	A	32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms wit		17	f
	≤24V	А	36
	=24 v	17	50

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	48V	А	34
	75V	А	33
	110V	А	34
	220V	А	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	36
	48V	A	34
	40V 75V	A	33
	110V	A	34
	220V	A	38
IEC may autrent to in DC2 DC5 with $1/D < 15$ may with 1 palas in parion	220 V	A	30
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	<0.4) (۸	0.4
	≤24V	A	24
	48V	A	20
	75V	A	17
	110V	А	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	28
	48V	А	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	32
	48V	А	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		20
	≤24V	А	32
	48V	A	28
	40V 75V	A	28
		A	
	110V		23
	220V	<u>A</u>	15
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse		_	
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	3 1.8
		Ibin	2.2
	max		۷.۷

Tightening torque for coil terminal



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			BF3	800A230	
ACTOR, IEC OPERATING CURRENT	IE (AC3)) = 38A,	AC COI	L 50/60HZ,	
				230VAC	
	min	Nm	0.8		
	max	Nm	1		
			~ ~		

		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
Max number of wires a	simultaneously connectable	Шах	nr.	2
Conductor section			111.	۷
Conductor section				
	Flexible w/o lug conductor section		_	
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
	r lexible with insulated spade lug conductor section		mm²	1
		min		
		max	mm²	10
	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
10/-1-1/				
Weight			g	426
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1400000
Safety related data				
	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
	_	nechanical load	•	20000000
M [*] ····································			cycles	
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
5	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ρισκ-αρ		0/11-	110
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	• •	min	%Us	85
		max	%Us	110
	drop of t	max	/003	
	drop-out		0/11-	20
		min	%Us	20
		max	%Us	55
AC operating voltage a	at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	noranig	., .	-
		:	1/4	70
		in-rush	VA	70

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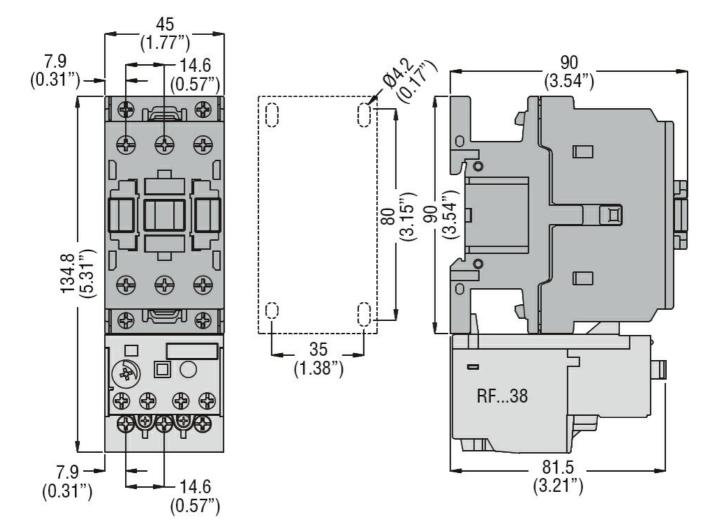
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			holding	VA	6.5
	of 60Hz coil powered a	t 60Hz			
			in-rush	VA	75
<u></u>			holding	VA	9
Dissipation at holding				W	2.5
Max cycles frequency				ov rol o o /b	2000
Mechanical operation Operating times				cycles/h	3600
	ontrol				
Average time for Us c	in AC				
	III AC	Closing NO			
			min	ms	8
			max	ms	24
		Opening NO	Пах	mo	27
		oponing ito	min	ms	5
			max	ms	15
		Closing NC	max		. •
		g -	min	ms	9
			max	ms	20
		Opening NC			-
		- p	min	ms	9
			max	ms	17
UL technical data					
Full-load current (FLA) for three-phase AC moto	or			
	· · ·		at 480V	А	40
			at 600V	А	32
Yielded mechanical pe	erformance				
-	for single-phase AC mo	otor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC mo	tor			
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					
	Contactor				
			AC current	А	55
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protecti	on				-
Pollution degree					3
Dimensions					

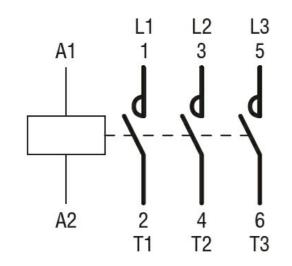
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Wiring diagrams



Certifications and 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		

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Compliance



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	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	1	
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching