

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, DC COIL LOW CONSUMPTION, 24VDC



Product designation		Power contactor
Product type designation		BF38
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	Α	56
Operating current	_	
Operational current AC1 (≤40°C)	A	56
Operational current AC3 (≤440V ≤55°C)	A	38
Operational current AC4 (400V)	A	15.5
Rated operational power AC1 (T≤40°C)	1-147	0.4
230V	kW	21
400V	kW	36
500V	kW	45
Betad a paretional neuron ACC (T<55°C)	kW	62
Rated operational power AC3 (T≤55°C)	1-147	44
230V	kW	11
400V	kW	18.5
415V 440V	kW	18.5
500V	kW	18.5 20
690V	kW kW	22
Short-time allowable current for 10s (IEC/EN60947-1)	A	320
Protection fuse	^	320
gG (IEC)	Α	63
aM (IEC)	A	40
Making capacity (RMS value)		380
Breaking capacity at voltage		300
Breaking capacity at voltage Breaking capacity 440V	Α	304
Breaking capacity 500V	A	240
Breaking capacity 690V	Α	192
Resistance per pole (average value)	mΩ	2
Power dissipation per pole (average value)	11132	
Power dissipation pole (average value) Ith	W	6
AC3	W	2.9
Tightening torque for terminals	••	
min	Nm	2.5
max	Nm	3
min	lbft	1.8
max	lbft	2.2
Tightening torque for coil terminal		



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section	NMO			
	AWG			4.4
		min		14
	Florible w/s has sometimes a setting	max		6
	Flexible w/o lug conductor section	min	mm²	2.5
		min max	mm² mm²	2.5 16
	Florible a/w lug conductor acction	IIIdX	111111	10
	Flexible c/w lug conductor section	min	mm²	1
			mm²	10
	Florible with insulated anode lug conductor coeffic	max	111111	10
	Flexible with insulated spade lug conductor section	min	mm²	1
		max	mm²	10
Power terminal prote	ction according to IEC/EN 60529	Παλ	111111	IP20 when wired
Auxiliary contact char				irzo when whea
Operational current A			А	56
Operating current DC				30
Operating current DC	,13			Screw / DIN rail
		110V	Α	35mm
Ambient conditions				John
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	70
	Storage temperature	Hax		10
	Otorago temperaturo	min	°C	-60
		max	°C	80
Max altitude		Пах	 m	3000
Operating position				
operating position		normal		Vertical plan
		allowable		±30°
		anowabio		Screw / DIN rail
Mounting				35mm
Weight			g	0.568
Operations			J	
Mechanical life			Cycles	20000000
Electrical life			Cycles	1400000
Safety related data			, ,	
•	10d according to EN/ISO 13489-1			
	5	rated load	Cicli	1400000
		mechanical load	Cicli	20000000
Mirror contats accord	ling to IEC/EN 609474-4-1		3.011	yes
EMC compatibility	<u> </u>			yes
DC coil operating				
DC rated control volta	age			
	~3~	min	V	6
DC operating voltage		1111(1	· ·	
Do operating voitage				
	pick-up			



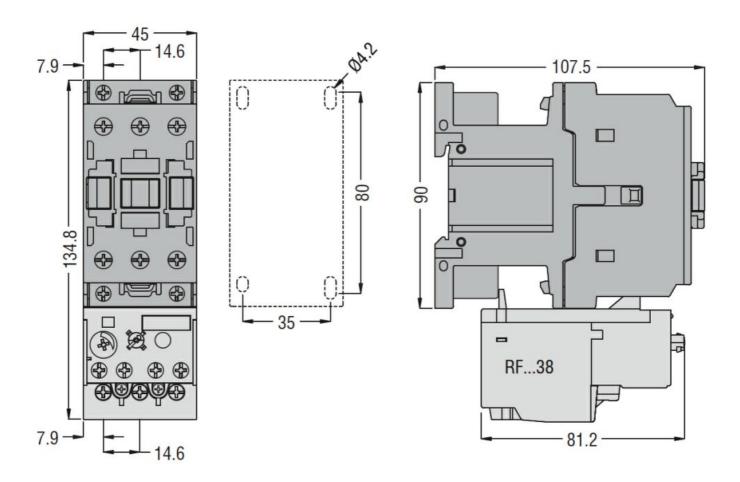


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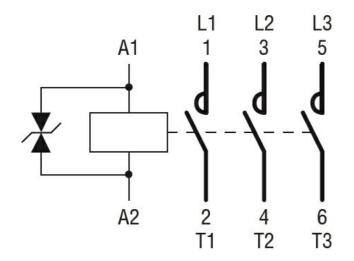
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
	•		min	%Us	0.1
			max	%Us	0.40
Average coil consuption	on ≤20°C				
			in-rush	W	2.4
			holding	W	2.4
Max cycles frequency					
Mechanical operations				Cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	8
		Omania (NO	max	ms	24
		Opening NO	*	P	E
			min	ms	5
	in DC		max	ms	15
	In DC	Closing NO			
		Closing NO	min	ms	76
			max	ms	92
		Opening NO	IIIax	1113	52
		opening 140	min	ms	16
			max	ms	20
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
,	,		at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe	rformance				
·	for single-phase AC	motor			
	- ·		at 110/120V	hp	3
			at 230V	hp	7.5
	for three-phase AC	motor			
			at 200/208V	hp	10
			at 220/230V	hp	15
			at 460/480V	hp	30
			at 575/600V	hp	30
General USE					
	Contactor				22
011 - 1 - 1			AC current	Α	32
Other features					
Pollution degree					3
Dimensions					



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Wiring diagrams



Certifications and compliance

Certifications

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

Compliance

CCC



BF3800L024

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cULus	
EAC	

ETIM 6 classification

EC000066 - Power contactor, AC switching