

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL LOW CONSUMPTION, 48VDC, 2NO AND 2NC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIax	A	56
		Α	30
Operational current le	AO 4 (44000)		
	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end	•	60
	AC-1 (≤55°C)	Α	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Α	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Short-time allowable current for 10s (IEC/EN6		Α	320
Protection fuse			
1 Totostion Tuos	gG (IEC)	Α	63
	aM (IEC)	A	40
Making capacity (DMC value)	aivi (IEO)	A	380
Making capacity (RMS value)		<u> </u>	300
Breaking capacity at voltage	440)/		004
	440V	Α	304
	500V	A	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	Παλ	1 4111	•



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		0.8
max		0.74
	Nr.	2
mov		6
IIIdX		6
min	mm²	2.5
		16
min	mm²	1
max	mm²	10
tion		
min	mm²	1
max	mm²	10
		IP20 when
		properly wired
namad		Vortical plan
		Vertical plan ±30°
allowable		Screw / DIN rail
		35mm
	a	665
max		6
	cycles	20000000
	cycles	1400000
	-	1400000
mechanical load	cycles	20000000
		YES
		yes
max	%Us	55
Пих	,000	
	V	48
min	%Us	80
max	%Us	110
min	%Us	10
max	%Us	40
in-rush	W W	2.4
holding		2.4
	max tion min max normal allowable max rated load mechanical load min max min max	max Ibin Nr. max min mm² max mm² min mm² max mm² tion min mm² max mm² max mm² finormal allowable g max cycles cycles cycles cycles cycles rated load cycles mechanical load cycles mechanical load cycles min my V min %Us max %Us min %Us max %Us



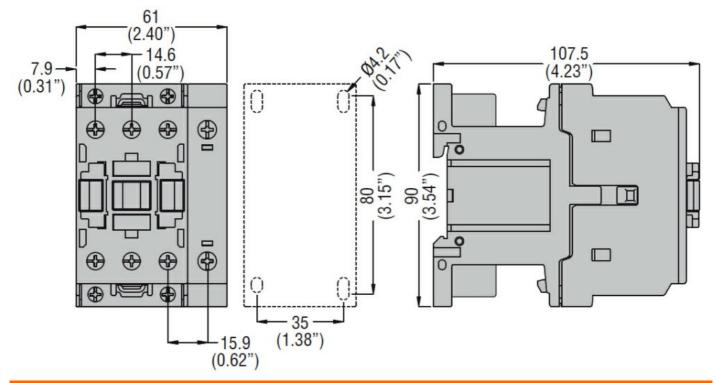
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Mechanical operati	ncy ion			cycles/h	3600
Operating times					
Average time for U					
	in AC	Closing NO			
		Closing NO	min	ms	8
			max	ms	24
		Opening NO			
		, ,	min	ms	5
			max	ms	15
		Closing NC			
			min	ms	9
		0 : 110	max	ms	20
		Opening NC	i-		0
			min	ms ms	9 17
	in DC		max	ms	1 /
	111 00	Closing NO			
		2.009 1.0	min	ms	76
			max	ms	92
		Opening NO			
			min	ms	16
			max	ms	20
		Closing NC	_		
			min	ms	25
		Opening NC	max	ms	31
		Opening NC	min	me	63
			max	ms ms	71
JL technical data			max	1110	
	LA) for three-phase	AC motor			
•			at 480V	Α	40
			at 600V	Α	32
ielded mechanica					
	for single-phas	se AC motor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phas	e AC motor	000/0001	LIE	4.0
			200/208V	HP	10
			220/230V 460/480V	HP HP	15 30
			575/600V	HP	30
General USE			31 0/000 V		
	Contactor				
			AC current	Α	55
Ambient conditions	<u> </u>				
emperature					
	Operating tem	perature			
			min	°C	-50
			max	°C	70
	Storage temper	erature			
			min	°C	-60
			max	°C	80

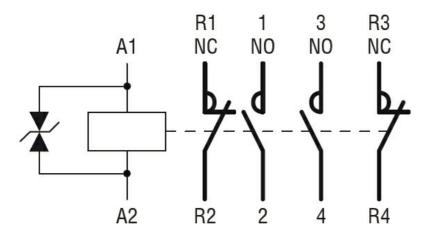
ENERGY AND AUTOMATION

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Max altitude	m	3000
Resistance & Protection		
Pollution degree		3
Dimensions		



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

CCC

cULus

EAC

ETIM classification



BF38T2L048

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ETIM 8.0

EC000066 -Power contactor, AC switching