BF38T4A110



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 110VAC



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			
	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 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	Ā	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Ā	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	Ă	38
	AC-4 (400V)	А	15.5
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 w			
	≤24V	А	35
	48V	А	30
	75V	А	23
	110V	А	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms w	ith 2 poles in series		
	≤24V	А	36
	48V	А	34
	75V	А	29
	110V	А	32
	220V	А	4
IEC max current le in DC1 with L/R ≤ 1ms w			
	≤24V	А	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	30
IEC max current le in DC1 with L/R ≤ 1ms w			~-
	≤24V	А	36
	48V	A	34
	40 V	А	54

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FOUR-POLE CONTACTOR, IEC OPERATING C 110VAC

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110\/AC	

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		_	
	75V	Α	33
	110V	A	34
EC may autrent to in DC2 DC5 with $1/D < 15$ may with 1 pales in parise	220V	A	38
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	≤24V	^	24
	≤24V 48V	A A	24 20
	48V 75V	A	20 17
	110V	A	
	220V	A	2,5 -
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2201	Α	
	≤24V	А	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			-
	≤24V	А	32
	48V	А	28
	75V	А	28
	110V	А	23
	220V	Α	25
EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series			
	≤24V	А	32
	48V	А	28
	75V	А	28
	110V	А	23
	220V	Α	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		А	380
Breaking capacity at voltage		_	
	440V	Α	304
	500V	Α	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
-	AC-3	W	2.9
Tightening torque for terminals		N 1.	0.5
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	lbin	2.2
Tightening torque for coil terminal		N 1	0.9
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
Max number of wires simultaneously connectable	max	lbin	0.74
		Nr.	/

AWG/Kcmil

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	max		6
Flexible w/o lug conductor section	max		-
-	min	mm²	2.5
	max	mm²	16
Flexible c/w lug conductor section		2	
	min	mm²	1
Flexible with insulated spade lug conductor section	max	mm²	10
r ichible with insulated space by conductor section	min	mm²	1
	max	mm²	10
Power terminal protection according to IEC/EN 60529			IP20 when properly wired
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Screw / DIN rail 35mm
Weight		g	508
Conductor section			
AWG/kcmil conductor section			0
Operations	max		6
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data		-, 0.00	
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1400000
	anical load	cycles	2000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating			yes
Rated AC voltage at 50/60Hz		V	110
		•	
AC operating voltage			
AC operating voltage of 50/60Hz coil powered at 50Hz			
of 50/60Hz coil powered at 50Hz	min	%Us	80
of 50/60Hz coil powered at 50Hz pick-up	min max	%Us %Us	
of 50/60Hz coil powered at 50Hz	max	%Us	80 110
of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us	80 110
of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	80 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	80 110 20 55
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min	%Us %Us %Us %Us %Us	80 110 20 55 85 110 20
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max min max min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55 75

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		holding	VA	6.5
	of 60Hz coil powered at 60Hz			75
		in-rush holding	VA VA	75 9
Dissipation at holding	<20°C 50Hz	noiding	W	2.5
Max cycles frequency			vv	2.5
Mechanical operation			cycles/h	3600
Operating times			0,0100,11	0000
Average time for Us co	ontrol			
	in AC			
	Closing NO			
	g	min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
	5	min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA)) for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanical pe	erformance			
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE				
	Contactor			
		AC current	А	55
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
Ambient conditions				
Temperature				
	Operating temperature		~ -	
		min	°C	-50
		max	°C	70
	Storage temperature		~ -	
		min	°C	-60
		max	°C	80

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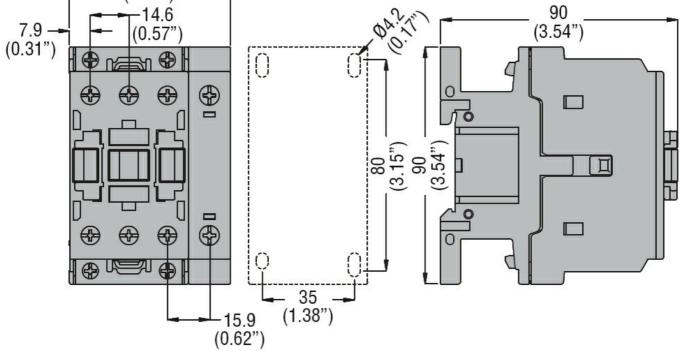
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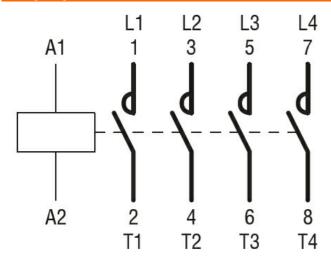
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ENERGY AND AUTOMATION

Max altitude m 3000 Resistance & Protection Pollution degree 3 Dimensions 7.9 - (2.40") - (2.40") - (3.54")



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

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	cULus
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching