

Product designation		Power c	ontacto
Product type designation		BF38	
Contact characteristics			
Number of poles	Ν	Ir. 4	
Rated insulation voltage Ui IEC/EN		√ 690	
Rated impulse withstand voltage Uimp	k	V 6	
Operational frequency			
	min H	lz 25	
		iz 20 iz 400	
IEC Conventional free air thermal current Ith		A 56	
		4 50	
Operational current le			
	()	A 56	
AC-1 (≤40°	C) with 16mm ² wire and fork end lug		
	(, , , , , , , , , , , , , , , , , , ,	A 45	
AC-1 (≤55°	C) with 16mm ² wire and fork end lug		
	x y	A 40	
AC-1 (≤70°	C) with 16mm ² wire and fork end lug	A 42	
	AC-3 (≤440V ≤55°C)	A 38	
	AC-4 (400V)	A 15.5	
Rated operational power AC-1 (T≤40°C)			
	230V k	W 21	
		W 36	
		W 45	
		W 62	
Short-time allowable current for 10s (IEC/EN60947-1)		A 320	
Protection fuse	/	020	
FIOLECLIOITIUSE		• • • •	
	č ()	A 63	
		<u>40</u>	
Making capacity (RMS value)		A 380	
Breaking capacity at voltage			
		A 304	
	500V	A 240	
	690V	A 192	
Resistance per pole (average value)	m	iΩ 2	
Power dissipation per pole (average value)			
	اth ۱	V 6	
	AC-3 V	V 2.9	
Tightening torque for terminals			
	min N	m 2.5	
		m 3	
		bin 1.8	
		oin 2.2	
Tightoning torque for cell terminel	max lt	2.Z	
Tightening torque for coil terminal		-	
		m 0.8	
	max N	m 1	

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BF38T2A048 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT IT

H (AC1) = 56A, AC COIL 50/60HZ,
48VAC, 2NO AND 2NC

	mir	Ibin	0.8
	max	lbin	0.74
Max number of wires	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		
	max		6
	Flexible w/o lug conductor section	2	- -
	mir		2.5
	max Flouible of the conductor continu	mm²	16
	Flexible c/w lug conductor section mir	mm²	1
	ma		10
	Flexible with insulated spade lug conductor section		10
	mir	mm²	1
	ma	_	10
			IP20 when
•	ction according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	norma		Vertical plan
	allowable	1	±30°
Fixing			Screw / DIN rai
		-	35mm
Weight Conductor section		g	514
Conductor section	AWG/kcmil conductor section		
	max	,	6
Operations	11167		0
Mechanical life		cvcles	2000000
Mechanical life Electrical life		cycles cvcles	20000000 1400000
Mechanical life Electrical life Safety related data		cycles cycles	20000000 1400000
Electrical life Safety related data	0d according to EN/ISO 13489-1		
Electrical life Safety related data	0d according to EN/ISO 13489-1 rated load	cycles	
Electrical life Safety related data	-	cycles cycles	1400000
Electrical life Safety related data Performance level B1 Mirror contats accordi	rated load	cycles cycles	1400000 1400000
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility	rated load mechanical load	cycles cycles	1400000 1400000 20000000
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	rated load mechanical load ing to IEC/EN 609474-4-1	cycles cycles cycles	1400000 1400000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1	cycles cycles	1400000 1400000 20000000 YES
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz	cycles cycles cycles	1400000 1400000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	cycles cycles cycles	1400000 1400000 20000000 YES yes
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up	cycles cycles cycles V	1400000 1400000 20000000 YES yes 48
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir	cycles cycles cycles V	1400000 1400000 20000000 YES yes 48
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max	cycles cycles cycles V	1400000 1400000 20000000 YES yes 48
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max drop-out	cycles cycles cycles V V %Us %Us	1400000 1400000 20000000 YES yes 48 80 110
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max drop-out mir	cycles cycles cycles V V %Us %Us %Us	1400000 1400000 20000000 YES yes 48 80 110 20
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max drop-out mir max	cycles cycles cycles V V %Us %Us	1400000 1400000 20000000 YES yes 48 80 110
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max drop-out mir max of 50/60Hz coil powered at 60Hz	cycles cycles cycles V V %Us %Us %Us	1400000 1400000 20000000 YES yes 48 80 110 20
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max drop-out mir max of 50/60Hz coil powered at 60Hz pick-up	v cycles cycles v v v v v v v s %Us %Us %Us	1400000 1400000 20000000 YES yes 48 80 110 20 55
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out mir max of 50/60Hz coil powered at 60Hz pick-up mir	cycles cycles cycles V V %Us %Us %Us %Us %Us	1400000 1400000 20000000 YES yes 48 80 110 20 55 85
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out mir max of 50/60Hz coil powered at 60Hz pick-up mir max	cycles cycles cycles V %Us %Us %Us %Us	1400000 1400000 20000000 YES yes 48 80 110 20 55
Electrical life Safety related data Performance level B1 Mirror contats accordi EMC compatibility AC coil operating Rated AC voltage at 5	rated load mechanical load ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out mir max of 50/60Hz coil powered at 60Hz pick-up mir	v cycles cycles v v v v v v v v v v v v v v v v v v v	1400000 1400000 20000000 YES yes 48 80 110 20 55 85

AC average coil consumption at 20°C



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

48VAC, 2NO AND 2NC

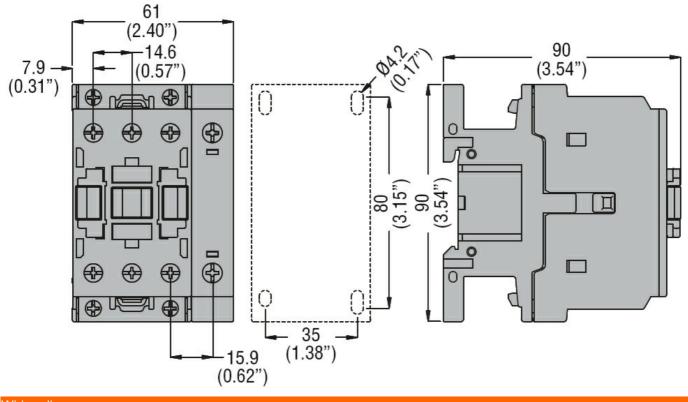
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	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency			ovelee/b	2600
Mechanical operation Operating times			cycles/h	3600
Average time for Us co	ontrol			
Average time for 05 ct	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO	max	1113	
		min	ms	5
		max	ms	15
	Closing NC	max		
	0.000.19.10	min	ms	11
		max	ms	29
	Opening NC			
		min	ms	6
		max	ms	14
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	40
		at 600V	Α	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
0		575/600V	HP	30
General USE				
	Contactor	10		
A male is not as an altitude		AC current	A	55
Ambient conditions				
Temperature	Operating temperature			
	Operating temperature		° ^	50
		min	°C °C	-50
	Storage temperature	max	U	70
	Storage temperature	min	°C	60
		min	°C	-60 80
Max altitude		max		3000
Resistance & Protection	מר <u></u>		m	3000
Pollution degree				3
				~
	stics described in this document are subject to updates or modification			

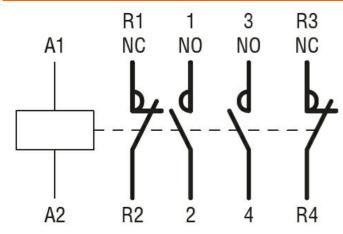
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding BF38T2A048



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	

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 48VAC, 2NO AND 2NC

ETIM 8.0

EC000066 -Power contactor, AC switching