

Product designation		Power conta
Product type designation		BF38
Contact characteristics		
Number of poles	N	r. 4
Rated insulation voltage Ui IEC/EN	\	
Rated impulse withstand voltage Uimp	k	
Operational frequency		• •
Operational frequency	min H	z 25
	max H	
IEC Conventional free air thermal current Ith	A	A 56
Operational current le		
	AC-1 (≤40°C) A	
AC-1 (≤40°C	c) with 16mm² wire and fork end lugA	A 60
	AC-1 (≤55°C) A	A 45
AC-1 (≤55°C	c) with 16mm ² wire and fork end lug <i>l</i>	A 48
	AC-1 (≤70°C) A	A 40
AC-1 (≤70°C) with 16mm² wire and fork end lug	42
Υ.	AC-3 (≤440V ≤55°C) Å	
	AC-4 (400V) A	
Rated operational power AC-1 (T≤40°C)		
	230V kV	N 21
	400V kV	
	500V k	
	690V k	
Short-time allowable current for 10s (IEC/EN60947-1)	090V Ki	
	<i>F</i>	A 320
Protection fuse		
	gG (IEC)	
	aM (IEC) A	
Making capacity (RMS value)	<i>F</i>	A 380
Breaking capacity at voltage		
	440V A	A 304
	500V A	A 240
	690V A	A 192
Resistance per pole (average value)	m	Ω 2
Power dissipation per pole (average value)		
	lth V	V 6
	AC-3 V	
Tightening torque for terminals		. 2.0
	min N	m 2.5
	max N	
		in 1.8
	max Ib	in 2.2
Tightening torque for coil terminal		
	min N	
	max N	m 1



BF38T2A400 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ,

400VAC, 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		
	mir	mm²	2.5
	max		16
	Flexible c/w lug conductor section		
	mir	mm²	1
	may	2	10
	Flexible with insulated spade lug conductor section		
	mir	mm²	1
	may	-	10
			IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	norma	l	Vertical plan
	allowable		±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	522
Conductor section		9	522
	AWG/kcmil conductor section		
			6
Operations	ma>	<u> </u>	0
Mechanical life		cycles	20000000
iviechanical ille		UVUES	20000000
		-	
Electrical life		cycles	1400000
Electrical life Safety related data	Od according to EN/ISO 12490 1	-	
Electrical life Safety related data	0d according to EN/ISO 13489-1	cycles	1400000
Electrical life Safety related data	rated load	cycles cycles	1400000 1400000
Electrical life Safety related data Performance level B1	rated load mechanical load	cycles cycles	1400000 1400000 20000000
Electrical life Safety related data Performance level B1 Mirror contats accordi	rated load	cycles cycles	1400000 1400000 20000000 YES
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 ng 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 ng 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 AC voltage at 5	rated load mechanical load ng 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 ng 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 ng to IEC/EN 609474-4-1	cycles cycles cycles V	1400000 1400000 20000000 YES yes 400
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 ng to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	cycles cycles cycles V	1400000 1400000 20000000 YES yes 400
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 ng 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 400
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 ng 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	1400000 1400000 20000000 YES yes 400 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 ng to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max	cycles cycles cycles V V %Us %Us	1400000 1400000 20000000 YES yes 400 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 ng 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 %Us	1400000 1400000 20000000 YES yes 400 80 110
Electrical life Safety related data Performance level B1	rated load mechanical load ng to IEC/EN 609474-4-1 i0/60Hz of 50/60Hz coil powered at 50Hz pick-up mir max drop-out mir	cycles cycles cycles V V %Us %Us	1400000 1400000 20000000 YES yes 400 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 ng 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 400 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 ng 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 %Us	1400000 1400000 20000000 YES yes 400 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 ng 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	cycles cycles cycles v v %Us %Us %Us %Us	1400000 1400000 20000000 YES yes 400 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 ng 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	1400000 1400000 20000000 YES yes 400 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 ng 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 v v %Us %Us %Us %Us %Us	1400000 1400000 20000000 YES yes 400 80 110 20 55 85

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 BF38T2A400



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

400VAC, 2NO AND 2NC

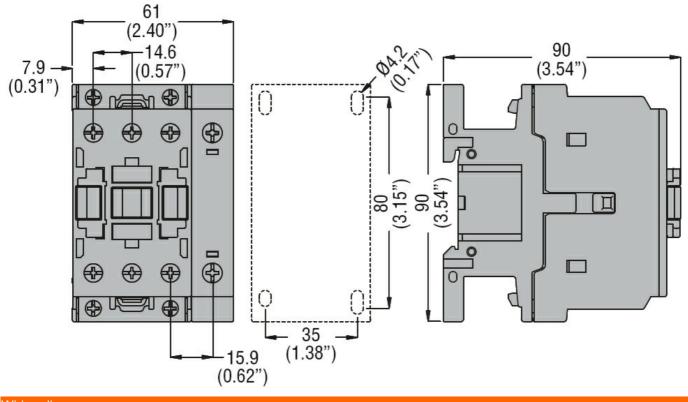
BF38T2A400

	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
	of 50/60Hz poil powered at 60Hz	holding	VA	9
	of 50/60Hz coil powered at 60Hz	in-rush	VA	70
		holding	VA VA	6.5
	of 60Hz coil powered at 60Hz	Totaling	VA	0.0
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	0	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO		,	F
		min	ms	5
	Closing NC	max	ms	15
	Closing NC	min	ms	11
		max	ms	29
	Opening NC	Пах	1113	25
	oponing ito	min	ms	6
		max	ms	14
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	000/0001		10
		200/208V	HP	10
		220/230V	HP	15
		460/480V 575/600V	HP HP	30 30
General USE		575/0000		30
	Contactor			
	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
Desistence 0 Destant				
Resistance & Protection	on			-
Pollution degree	on			3

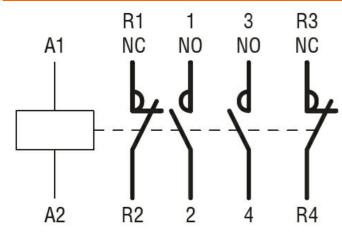
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Dimensions



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, 400VAC, 2NO AND 2NC

ETIM 8.0

EC000066 -Power contactor, AC switching