



Des dust de sien stien			Devenerate
Product designation			Power contactor
Product type designation			BF38
Contact characteristics		Nir	1
Number of poles		Nr. V	4 690
Rated insulation voltage Ui IEC/EN		kV	
Rated impulse withstand voltage Uimp		κv	6
Operational frequency			25
	min	Hz	25
IFC Convertional free air the media unrent lth	max	Hz	400
IEC Conventional free air thermal current Ith		A	56
Operational current le		^	50
	AC-1 (\leq 40°C)	A	56
	AC-1 (≤40°C) with 16mm ² wire and fork end	-	60
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm ² wire and fork end	-	48
	AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end AC-3 (≤440V ≤55°C)		42
	AC-3 (5440V 553 C) AC-4 (400V)	A A	38 15.5
Poted appretianal new or AC 1 (T<40°C)	AC-4 (400V)	A	15.5
Rated operational power AC-1 (T≤40°C)	2201/	L\\/	04
	230V	kW	21
	400V 500V	kW kW	36 45
	690V	kW	45 62
IEC max current le in DC1 with L/R ≤ 1ms wi		r v v	02
	≤24V	۸	35
	≤24∨ 48V	A	35 30
	40V 75V	A A	23
	110V	A	8
	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms wi		A	_
$EC \max Current le lin DCT with E/R \le \max$		۸	26
	≤24V 48V	A A	36 34
	48V 75V	A	34 29
	75V 110V	A	29 32
	220V	A	4
IEC max current le in DC1 with L/R ≤ 1ms wi		~	7
	≤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 wi		~	50
	≤24V	А	36
	48V	A	34
	40 V	А	54

BF38T4L048



BF38T4L048 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL LOW CONSUMPTION, 48VDC

	75V	А	33
	110V	А	34
	220V	А	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	24
	48V	A	20
	75V	A	17
	110V	A	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201		
	≤24V	А	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V	~	5
TEC max current le in DC3-DC3 with E/K = 15ms with 5 poles in series	≤24V	А	32
	≤24V 48V		
		A	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	-0.0.4		
	≤24V	A	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	A	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)		A	380
Breaking capacity at voltage		-	
	440V	А	304
	500V	А	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			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
ANAC/Komil			

AWG/Kcmil

BF38T4L048



BF38T4L048 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL LOW CONSUMPTION, 48VDC

6

max

		Пал		0
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conduct	or section		
		min	mm²	1
		max	mm²	10
Power terminal protec	tion according to IEC/EN 60529			IP20 when
Power terminal protec	tion according to IEC/EN 80529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	665
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	2000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	drop-out			
		max	%Us	55
DC coil operating				
DC rated control voltage	ge		V	48
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	10
		max	%Us	40

Average seil consumption <20°C

Average coll consumption \$20°C			
	in-rush	W	2.4
	holding	W	2.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			

in AC

BF38T4L048

BF38T4L048 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL LOW CONSUMPTION, 48VDC

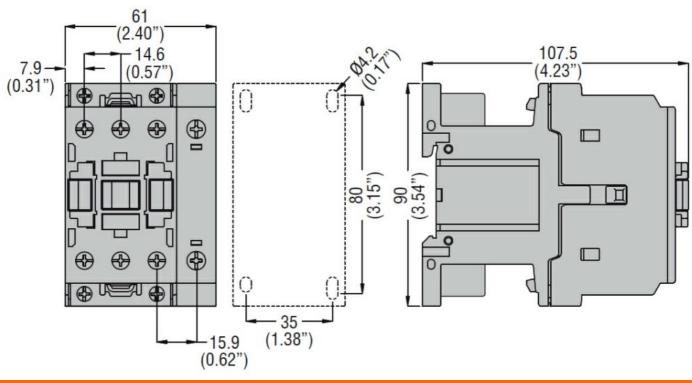


		Closing NO			2
			min	ms	8
			max	ms	24
		Opening NO	min		5
			min max	ms ms	5 15
		Closing NC	IIIdA	1115	15
			min	ms	9
			max	ms	20
		Opening NC	max	mo	20
		opening No	min	ms	9
			max	ms	17
	in DC				
		Closing NO			
		elecing ite	min	ms	76
			max	ms	92
		Opening NO	max		
			min	ms	16
			max	ms	20
UL technical data					-
	A) for three-phase AC m	notor			
	,,		at 480V	А	40
			at 600V	A	32
Yielded mechanical	performance				
	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 protecti	on fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	A	100
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	A	150
Ambient conditions					
Temperature					
	Operating temperatu	ıre			
	- 1		min	°C	-50
			max	°Č	70
	Storage temperature	9			
			min	°C	-60
			max	°Č	80
Max altitude				m	3000
Resistance & Protec	tion				
Pollution degree					3
			11.00 (1)		
The choree	toristics described in this desuman	t are subject to undetee or med	utiontions at any time. The descriptions	to obside al	

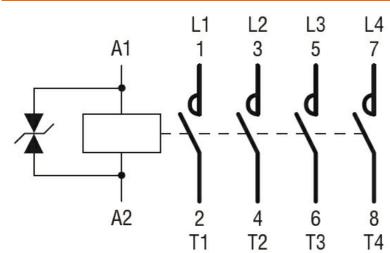
BF38T4L048 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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 classificatio	bn



BF38T4L048 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL LOW CONSUMPTION, 48VDC

ETIM 8.0

EC000066 -Power contactor, AC switching