



Product designation Product type designation		Power contactor BF38
Contact characteristics		
Number of poles	Nr.	3
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	Α	56
Operational current le		
AC-1 (≤40°C)	Α	56
AC-1 (≤40°C) with 16mm² wire and fork end	lugA	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	_	42
AC-3 (≤440V ≤55°C)	Α	38
AC-4 (400V)	Α	15.5
Rated operational power AC-3 (T≤55°C)		
230V	kW	11
400V	kW	18.5
415V	kW	18.5
440V	kW	18.5
500V	kW	20
Poted energtional power AC 1 (T<10°C)	kW	22
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 with 1 poles in series	IX V V	<u> </u>
≤24V	Α	35
48V	Α	30
75V	Α	23
110V	Α	8
220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_
≤24V	Α	36
48V	Α	34
75V	Α	29
110V	Α	32
220V	Α	4
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		
≤24V	Α	36



	48V	Α	34
	75V	Α	33
	110V	Α	34
	220V	Α	30
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	36
	48V	Α	34
	75V	Α	33
	110V	Α	34
	220V	Α	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	24
	48V	Α	20
	75V	A	17
	110V	A	2,5
	220V	A	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201	- , ,	
20 max sarront to in 200 200 with E/T = Tomo with 2 polos in selles	≤24V	Α	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		3
indication in the introduction of the series	≤24V	۸	22
		A	32
	48V 75V	A	28
		A	28
	110V	A	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220V	Α	25
indication in the in bos-bos with L/K > 15ms with 4 poles in series	≤24V	۸	22
	≤24V 48V	A A	32
			28
	75V	A	28
	110V	A	23
Ob and 4 in a collection by a company for 40 a (IEO/ENICO047.4)	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse	=O (IFO)	^	60
	gG (IEC)	A	63
Maling and site (DMO color)	aM (IEC)	A	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage	4.00		004
	440V	A	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	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			



	mir	Nm	0.8
	max		1
	mir		0.8
	max		0.74
Max number of wires s	simultaneously connectable	Nr.	2
Conductor section	minario della commenciazio		
Conductor Section	AWG/Kcmil		
	max	,	6
	Flexible w/o lug conductor section	•	
	_	mm²	2.5
	mir		
	The ible of the property of th	mm²	16
	Flexible c/w lug conductor section	2	4
	mir		1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	mir		1
_	max	mm²	10
Power terminal protect	tion according to IEC/EN 60529		IP20 when
	and according to 1E0/E14 00020		properly wired
Mechanical features			
Operating position			
	norma		Vertical plan
	allowable	!	±30°
Finding at			Screw / DIN rail
Fixing			35mm
Weight		g	564
Operations		<u> </u>	
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data		Cycles	1400000
	0d according to EN/ISO 12490 1		
renormance level bit	0d according to EN/ISO 13489-1	- suelee	4.400000
	rated load	•	1400000
	mechanical load	cycles	20000000
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			
. 5 5	pick-up		
	mir	%Us	80
	max		110
	drop-out	,,,,,	
	mir	%Us	10
			40
Average seil caracina	max tion <20°C	/005	⊤ ∪
Average coil consump		147	0.4
	in-rush		2.4
	holding	W	2.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			



Average time for Us control in AC Closing NO min ms 8 24 max ms Opening NO 5 min ms 15 ms max Closing NC min ms 9 20 max ms Opening NC 9 min ms 17 max ms in DC Closing NO 76 min ms 92 max ms Opening NO 16 min ms max 20 ms UL technical data Rated operational voltage AC (UL) ٧ 600 Full-load current (FLA) for three-phase AC motor at 480V Α 40 at 600V 32 Α Yielded mechanical performance for single-phase AC motor 110/120V HP 3 230V HP 7.5 for three-phase AC motor HP 200/208V 10 220/230V 15 HP 460/480V HP 30 575/600V HP 30 General USE Contactor AC current 55 Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating Α 100 Fuse class J Standard fault 5 Short circuit current kΑ 150 Fuse rating Α Ambient conditions Temperature Operating temperature °C -50 min °C max 70 Storage temperature °C -60 min °C 80 max

ENERGY AND AUTOMATION

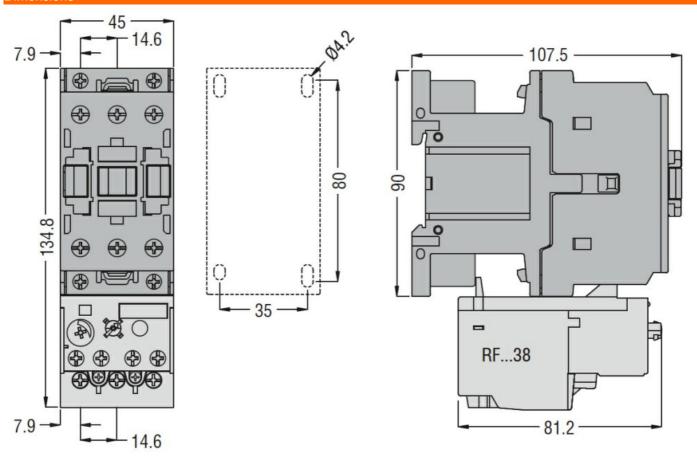
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, DC COIL LOW CONSUMPTION, 48VDC

Max altitude m 3000

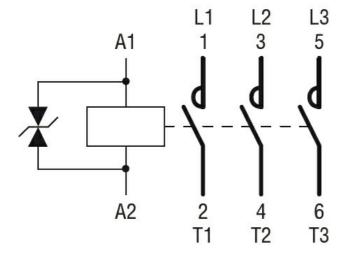
Resistance & Protection

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



BF3800L048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, DC COIL LOW CONSUMPTION, 48VDC

	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
TTIM alegaificatio	2	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching