



Product designation			Power contactor
Product type designation			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	lugA	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
	690V	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 wit	•		
	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms wit			
	≤24V	Α	36
	48V	A	34
	75V	Α	29
	110V	A	32
	220V	Α	4
IEC max current le in DC1 with L/R ≤ 1ms wit	h 3 poles in series ≤24V	Α	36



	48V	Α	34
	75V	A	33
	110V	A	34
	220V	A	30
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		30
in a max current to in Bot with E/N = 1116 with 4 poles in series	≤24V	Α	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		
Lo max outlett to in 200 200 with Lift = 10mb with 1 poles in series	≤24V	Α	24
	48V	A	20
	75V	A	17
	110V	A	
	220V	A	2,5 _
IFC may surrent to in DC2 DC5 with L/D < 15mg with 2 males in series	220 V	A	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	~24\ /	۸	20
	≤24V	A	28
	48V	A	25
	75V	Α	22
	110V	A	18
IFO	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	10.43.4		22
	≤24V	Α	32
	48V	Α	28
	75V	Α	28
	110V	Α	23
	220V	Α	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	≤24V	A	32
	48V	Α	28
	75V	Α	28
	110V	Α	23
	220V	Α	15
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	A	40
Making capacity (RMS value)		Α	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)			
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	min max	Nm Nm	2.5 3
	max	Nm	3



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		min	Nm	0.8
		max	Nm	1
		min	Ibin	8.0
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	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 conductor	section		
		min	mm²	1
		max	mm²	10
Power terminal protes	ation appording to IEC/EN 60500			IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Neight			g	564
			g	564
	AWG/kcmil conductor section		g	564
	AWG/kcmil conductor section	max	g	564 6
Conductor section	AWG/kcmil conductor section	max	g	
Conductor section Operations	AWG/kcmil conductor section	max		
Conductor section Operations Mechanical life	AWG/kcmil conductor section	max	cycles	6
Conductor section Operations Mechanical life Electrical life	AWG/kcmil conductor section	max		6 20000000
Operations Mechanical life Electrical life Safety related data		max	cycles	6 20000000
Operations Mechanical life Electrical life Safety related data	AWG/kcmil conductor section Od according to EN/ISO 13489-1		cycles cycles	6 20000000 1400000
Operations Mechanical life Electrical life Safety related data		rated load	cycles cycles	6 20000000 1400000
Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1		cycles cycles	6 20000000 1400000 1400000 200000000
Operations Mechanical life Electrical life Safety related data Performance level B1		rated load	cycles cycles	6 20000000 1400000 1400000 200000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	0d according to EN/ISO 13489-1	rated load	cycles cycles	6 20000000 1400000 1400000 200000000
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	0d according to EN/ISO 13489-1	rated load	cycles cycles	6 20000000 1400000 1400000 200000000 yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load	cycles cycles	6 20000000 1400000 1400000 200000000 yes
Departions Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	rated load	cycles cycles	6 20000000 1400000 1400000 200000000 yes
Departions Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating	0d according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1	rated load mechanical load	cycles cycles cycles cycles	6 20000000 1400000 1400000 200000000 yes yes
Departions Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	rated load	cycles cycles	6 20000000 1400000 1400000 200000000 yes
Departions Mechanical life Electrical life Safety related data Performance level B1 Mirror contats according AC coil operating AC operating voltage DC coil operating	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load	cycles cycles cycles cycles	6 20000000 1400000 1400000 200000000 yes yes
Departions Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage DC coil operating DC rated control volta	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load	cycles cycles cycles cycles	6 20000000 1400000 1400000 200000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage DC coil operating DC rated control volta	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load	cycles cycles cycles cycles	6 20000000 1400000 1400000 200000000 yes yes
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage OC coil operating OC rated control volta	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load max	cycles cycles cycles cycles	6 20000000 1400000 1400000 200000000 yes yes 55 48
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage OC coil operating DC rated control volta	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load max	cycles cycles cycles cycles V	6 20000000 1400000 1400000 200000000 yes yes 55 48
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage OC coil operating OC rated control volta	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load max	cycles cycles cycles cycles	6 20000000 1400000 1400000 200000000 yes yes 55 48
Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord EMC compatibility AC coil operating AC operating voltage DC coil operating DC rated control volta	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load max	cycles cycles cycles v WUs V	6 20000000 1400000 1400000 200000000 yes yes 55 48 80 110
	Od according to EN/ISO 13489-1 ing to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz drop-out	rated load mechanical load max	cycles cycles cycles cycles V	6 20000000 1400000 1400000 200000000 yes yes 55 48



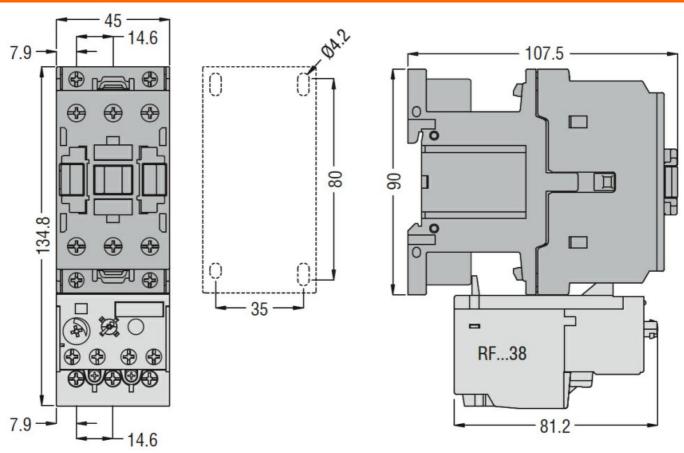


			in-rush holding	W W	2.4 2.4
Max cycles frequency			9		
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ntrol				
	in AC				
	C	Closing NO			
			min	ms	8
		On a min or NO	max	ms	24
	C	Opening NO	min	mc	5
			max	ms ms	15
	(Closing NC	Παλ	1113	13
		7103111g 1 10	min	ms	9
			max	ms	20
	C	pening NC			
			min	ms	9
			max	ms	17
	in DC				_
	C	Closing NO			
			min	ms	76
	_		max	ms	92
	C	pening NO			4.0
			min	ms	16 20
UL technical data			max	ms	20
	for three-phase AC motor				
	To the production		at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe	rformance				
	for single-phase AC moto	or			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC motor	r			
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP HP	30
General USE			575/600V	пР	30
Jelielai UJL	Contactor				
	Contactor		AC current	Α	55
Short-circuit protection	fuse, 600V		, 13 04110111		
p p	High fault				
	5		Short circuit current	kA	100
			Fuse rating	Α	100
			Fuse class		J
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	150
Ambient conditions					
Temperature					
	Operating temperature			°C	F0
			min	°C	-50

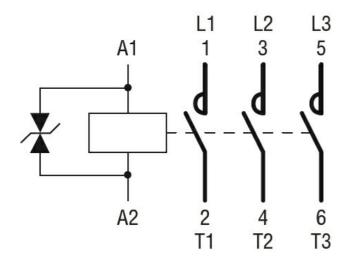


	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

Dimensions



Wiring diagrams



Certifications and compliance

Compliance



BF3800L048

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

	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

ETIM 8.0

EC000066 -Power contactor, AC switching