



Product designation		Power contactor
Product type designation Contact characteristics		BF38
Number of poles	Nr.	3
Rated insulation voltage Ui IEC/EN	V	690
Rated insulation voltage of EC/EN Rated impulse withstand voltage Uimp	kV	6
Operational frequency	ΝV	
min	Hz	25
max	Hz	400
IEC Conventional free air thermal current Ith	A	56
Operational current le		
AC-1 (≤40°C)	Α	56
AC-1 (≤40°C) with 16mm² wire and fork end I		60
AC-1 (≤55°C)	A	45
AC-1 (≤55°C) with 16mm² wire and fork end I		48
AC-1 (≤70°C)	A	40
AC-1 (≤70°C) with 16mm² wire and fork end l		42
AC-3 (≤440V ≤55°C)	Ã	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 with 1 poles in series		
≤24V	Α	35
48V	Α	30
75V	Α	23
110V	A	8
220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	Δ.	00
≤24V	A	36
48V	A	34
75V	A	29
110V	A	32
IEC may current to in DC1 with L/P < 1mc with 3 poles in series	Α	4
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V	Α	36
≥24 V	~	30



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

	48V	Α	34
	75V	Α	33
	110V	Α	34
	220V	Α	30
IEC 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	A	20
	75V	A	17
	110V	A	2,5
IFO the in DO2 DO5 with 1/D < 45 with 0 in ani	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	<24)/	۸	20
	≤24V 48V	A	28
	48 V 75 V	A A	25 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		<u> </u>
TEO MAX CUITER REPOSE OF WILL ETT 2 TOMS WILL 5 POICS IT SCHOS	≤24V	Α	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	Α	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	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)	Α	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
	690V	Α	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
Tightening terms for all terminal	max	Ibin	2.2
Tightening torque for coil terminal			





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	min		0.8
	max		1
	min		0.8
	max		0.74
	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		
	max		6
	Flexible w/o lug conductor section	•	
	min		2.5
	max	mm²	16
	Flexible c/w lug conductor section	2	
	min		1
	max	mm²	10
	Flexible with insulated spade lug conductor section	2	4
	min		1
	max	mm²	10
Power terminal protec	tion according to IEC/EN 60529		IP20 when
Mechanical features			properly wired
Operating position			
Operating position	normal		Vertical plan
	allowable		±30°
-	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	560
Conductor section		9	000
Conductor Section	AWG/kcmil conductor section		
	max		6
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data		,	
•	0d according to EN/ISO 13489-1		
	rated load	cycles	1400000
	mechanical load	•	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		yes
EMC compatibility	-		yes
DC coil operating			
DC rated control voltage	ge	V	48
DC operating voltage	-		
. 5	pick-up		
	min	%Us	70
	max		125
	drop-out		
	min	%Us	10
	max		40
Average coil consump			
- I	in-rush	W	5.4
	holding		5.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
			





Average time for Us control in AC Closing NO min 8 ms 24 max ms Opening NO min ms 5 15 max ms Closing NC min ms 9 20 max ms Opening NC 9 min ms 17 max ms in DC Closing NO 54 min ms 66 max ms Opening NO 14 min ms max 17 ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V Α 40 at 600V Α 32 Yielded mechanical performance for single-phase AC motor ΗP 110/120V 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 55 Α Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating Α 100 Fuse class J Standard fault Short circuit current kΑ 5 Fuse rating Α 150 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min °C max 80

3000

Max altitude

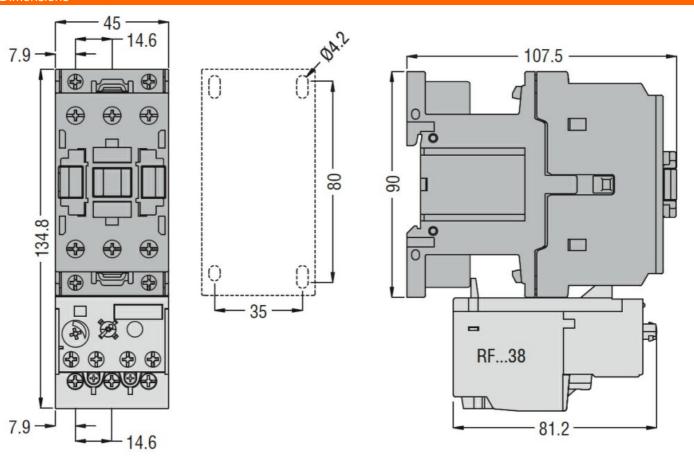


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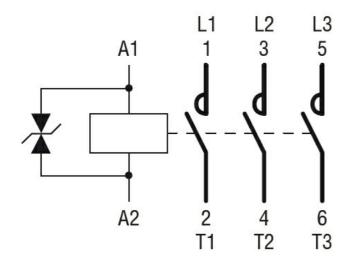
Resistance & Protection

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

UL 60947-1



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BF3800D048

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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	n .	

ETIM 8.0

EC000066 -Power contactor, AC switching