BF3800A400



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 400VAC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			0
oporating inequotion	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	56
Operating current		7.	
	Operational current AC1 (≤40°C)	А	56
	Operational current AC3 (≤440V ≤55°C)	A	38
	Operational current AC4 (400V)	A	15.5
Rated operational power AC1 (T≤40°C)		~	10.0
	230V	kW	21
	400V	kW	36
	400V 500V	kW	45
	690V	kW	62
Rated operational power AC3 (T≤55°C)	030 V	K V V	02
	230V	kW	11
	400V	kW	18.5
	400V 415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	20
Short-time allowable current for 10s (IEC/EN		A	320
Protection fuse	00347-1)	~	520
FIDIECTIONIUSE	gG (IEC)	А	63
	aM (IEC)		40
Making capacity (RMS value)	alvi (IEC)	A A	380
Breaking capacity at voltage		A	300
bleaking capacity at voltage	Prophing conspirity (140)/	٨	304
	Breaking capacity 440V Breaking capacity 500V	A	240
	U 1 J	A	
Resistance per pole (overage velue)	Breaking capacity 690V	A	192 2
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	Device discipation pale (every servelue) Ith	14/	C
	Power dissipation pole (average value) Ith	W	6
Tinktonia a tanan fan tanania ala	AC3	W	2.9
Tightening torque for terminals		NU	0.5
	min	Nm	2.5
	max	Nm	3
	min	lbft	1.8
	max	lbft	2.2

Tightening torque for coil terminal



ENERGY AND AUTOMATION	THREE-POLE CONTACTOR, IEC OPERATING CURREN	IT IE (AC3	3) = 38A,	BF3800A400 AC COIL 50/60HZ, 400VAC
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		6
	Flexible w/o lug conductor section			
	5	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	max		. •
	T lexible with insulated space by conductor section	min	mm²	1
		max	mm²	10
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char				
Operational current A	\C1 (≤40°C)		А	56

AWG		
min		14
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 protection according to IEC/EN 60529		IP20 when wired
Auxiliary contact characteristics		
Operational current AC1 (≤40°C)	А	56
Operating current DC13		
110V	А	Screw / DIN rail
1100	А	35mm
Ambient conditions		
Temperature		
Operating temperature		
min	°C	-50
max	°C	70
Storage temperature		
min	°C	-60
max	°C	80
Max altitude	m	3000
Operating position		
normal		Vertical plan
allowable		±30°
Mounting		Screw / DIN rail
Mounting		35mm
Weight	g	0.433
Operations		
Mechanical life C	Cycles	2000000
Electrical life C	Cycles	1400000
Safety related data		
Performance level B10d according to EN/ISO 13489-1		
	Cicli	1400000
	Cicli	2000000
Mirror contate according to LEC/EN 600474.4.4		
Mirror contats according to IEC/EN 609474-4-1		yes

AC operating voltage

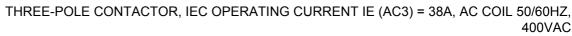
of 50/60Hz coil powered at 50Hz

pick-up

%Us 0.8 min

BF3800A400

BF3800A400





		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	
		min	%Us	0.8
	dana aut	max	%Us	1.1
	drop-out		%Us	0.2
		min	%Us %Us	0.2 0.55
AC operating voltage		max	/005	0.00
	of 50/60Hz coil powered at 50Hz			
	or soroon z con powered at soriz	in-rush	VA	75
		holding	VA VA	9
	of 50/60Hz coil powered at 60Hz	noiding	V/ (0
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations	5		Cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			_
		min	ms	5
		max	ms	15
UL technical data				
Full-load current (FLA)) for three-phase AC motor			40
		at 480V	A	40
Violdod mechanisel -	rformanaa	at 600V	A	32
Yielded mechanical pe				
	for single-phase AC motor	at 110/120V	hn	3
		at 110/120V at 230V	hp hp	3 7.5
	for three-phase AC motor	ai 230V	пр	1.0
	IN THEE-PHASE AC HIULUI	at 200/208V	hp	10
		at 200/208V at 220/230V	hp	15
		at 460/480V	hp	30
		at 575/600V	hp	30
General USE				-

General USE

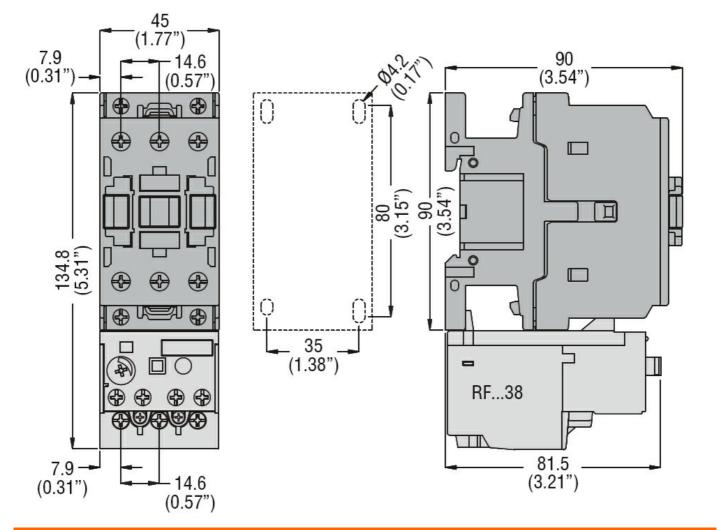
BF3800A400



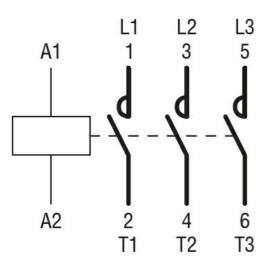
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 400VAC

Contactor





Wiring diagrams



Certifications and compliance Certifications

BF3800A400



BF3800A400 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 400VAC

	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classification	

EC000066 - Power contactor, AC switching

BF3800A400