

BF3800A048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 48VAC



			The same of the sa
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
·		K V	U
Operating frequency	O continue life continue continue		0.5
	Operational frequency min	Hz	25
-	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	56
Operating current			
	Operational current AC1 (≤40°C)	Α	56
	Operational current AC3 (≤440V ≤55°C)	Α	38
	Operational current AC4 (400V)	Α	15.5
Rated operational power AC1 (T≤40°C)			
,	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Rated operational power AC3A (T≤55°C)	030 V	KVV	02
Nated operational power ACSA (1233 C)	Dated enerational newer AC2 (T <fe°c) 220<="" td=""><td>\</td><td>44</td></fe°c)>	\	44
	Rated operational power AC3 (T≤55°C) 230		11
	Rated operational power AC3 (T≤55°C) 400		18.5
	Rated operational power AC3 (T≤55°C) 415		18.5
	Rated operational power AC3 (T≤55°C) 440		18.5
	Rated operational power AC3 (T≤55°C) 500		20
	Rated operational power AC3 (T≤55°C) 690		22
Short-time allowable current for 10s (IEC/EN6	60947-1)	Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	Breaking capacity 440V	Α	304
	Breaking capacity 500V	A	240
	Breaking capacity 690V	A	192
Desistance per pela (average value)	Broaking capacity coov	mΩ	2
		11122	2
Resistance per pole (average value)			
Power dissipation per pole (average value)	Dower discipation pole (overego value) Ith	14/	6
	Power dissipation pole (average value) Ith	W	6
Power dissipation per pole (average value)	Power dissipation pole (average value) Ith AC3	W W	6 2.9
Power dissipation per pole (average value)	AC3	W	2.9
	AC3	W Nm	2.9
Power dissipation per pole (average value)	AC3	W Nm Nm	2.9 2.5 3
Power dissipation per pole (average value)	AC3	W Nm	2.9



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

		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			
		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
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char				
Operational current A			Α	56
Operating current DC	13			
		110V	Α	Screw / DIN rail
				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
				35mm
Weight			g	0.43
Operations Machanical life			0	20000000
Mechanical life			Cycles	20000000
Electrical life			Cycles	1400000
Safety related data	10d according to FN/ICO 42420.4			
Performance level B1	l0d according to EN/ISO 13489-1		O: "	4.400000
		rated load	Cicli	1400000
NAC		echanical load	Cicli	2000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage	/ - 0/0011			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/17	
		min	%Us	0.8





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 48VAC

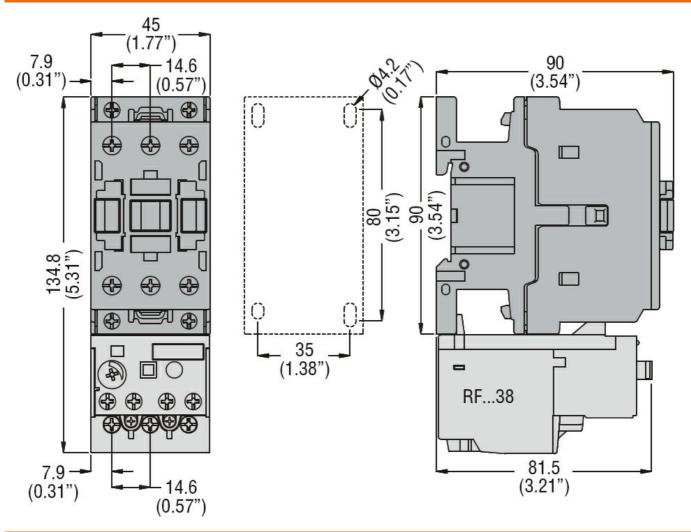
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	pion ap	min	%Us	0.85
		max	%Us	1.1
	drop-out	max	7000	
	drop out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	max	7003	0.00
	pick-up	min	%Us	0.8
		min		
	To a second	max	%Us	1.1
	drop-out		0/11-	0.0
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		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	<u> </u>	W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times			C y 0.00,	
Average time for Us co	ontrol			
Average time for 03 of	in AC			
	Closing NO			
	Closing NO	min	mc	8
			ms	o 24
	Opening NO	max	ms	24
	Opening NO	ina to	~ ~	E
		min	ms	5
III ta desiral data		max	ms	15
UL technical data) for three phase AQ water			
Full-load current (FLA)) for three-phase AC motor			40
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical pe				
	for single-phase AC motor			
		at 110/120V	hp	3
		at 230V	hp	7.5
	for three-phase AC motor			
		at 200/208V	hp	10
		at 220/230V	hp	15
		at 460/480V	hp	30
			•	
		at 575/600V	hp	30

ENERGY AND AUTOMATION

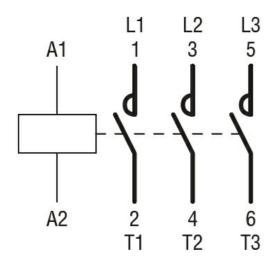
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ,

Contactor

	AC current	Α	32	
Other features				
Pollution degree			3	
Dimonsions				



Wiring diagrams



Certifications and compliance

Certifications



BF3800A048

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

	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