

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
Conventional free air thermal current Ith IEC/EN		Α	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-3 (≤440V ≤55°C)	А	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
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
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	Α	40
Making capacity (RMS value)		А	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC3	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



		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		/kcmil min		14
		/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 cor		_	
		min	mm²	1
		max	mm²	10
-	tion according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				
Operational current le			Α	56
Operating current DC1	3			
		110V	А	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
Operational position				
		Operating position normal		vertical plan
		Operating position allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	0.426
Operations			0	20000000
Mechanical life			Cycles	2000000
Electrical life			Cycles	1400000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			4.400000
		rated load	Cicli	1400000
		mechanical load	Cicli	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage	of 50/60Hz coil powered at 50Hz			

pick-up

min %Us 0.8

BF3800A230

ВF3800А230 Параметры 230VAC



General USE

BF3800A230

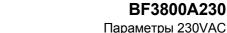
		max	%Us	1.1
		drop-out		
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil power	ed at 60Hz		
		pick-up		
		min	%Us	0.85
		max	%Us	1.1
		drop-out		
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered			
		pick-up		
		min	%Us	0.8
		max	%Us	1.1
		drop-out		
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil power			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil power			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered			
		in-rush	VA	75
<u></u>		holding	VA	9
Dissipation at holding	≤20°C 50HZ		W	2.5
Max cycles frequency			Overlage /h	2000
Mechanical operations Operating times	5		Cycles/h	3600
	ontrol			
Average time for Us co				
	in AC			
		Closing NO	me	Q
		min	ms	8 24
		max Opening NO	ms	24
		min	ms	5
		max	ms	5 15
UL technical data			1113	
) for three-phase AC mo	tor		
		at 480V	А	40
		at 600V	A	32
Yielded mechanical pe	erformance for		<i>/</i> \	~
	for single-phase AC m	ootor		
	ior single-phase AC II	Yielded mechanical performance 110/120V	hp	3
		Yielded mechanical performance 230V	hp	7.5
	for three-phase AC me	-	ΠΡ	
	ior unde-priase AC III		hn	10
		Yleided mechanical performance 20072080		
		Yielded mechanical performance 200/208V Yielded mechanical performance 220/230V		
		Yielded mechanical performance 200/208V Yielded mechanical performance 220/230V Yielded mechanical performance 460/480V	hp	15 30

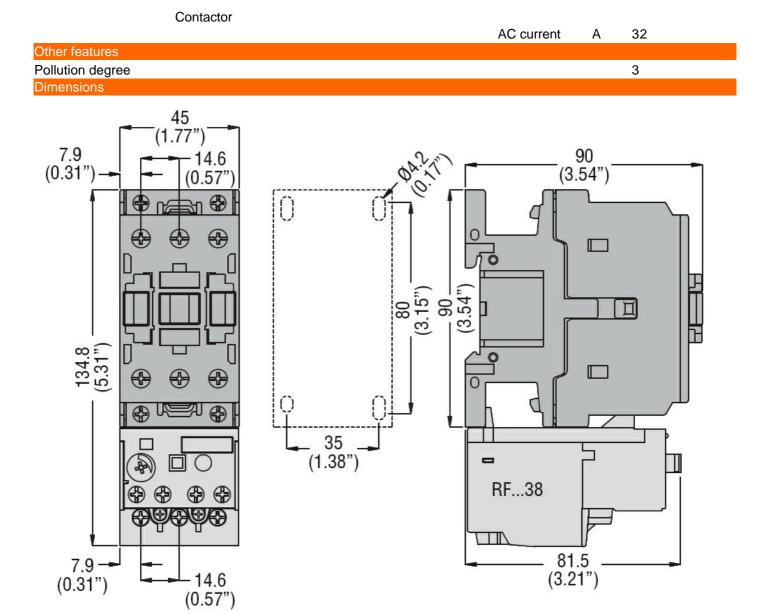
Yielded mechanical performance 575/600V

30

hp

Параметры 230VAC



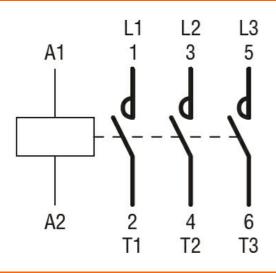


Wiring diagrams

OVa

ENERGY AND AUTOMATION

electric



Certifications and compliance Certifications





	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

BF3800A230