

Desduct designation			Danier and actor
Product designation			Power contactor
Product type designation			BF38
Contact characteristics			2
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	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 AC3 (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/EN		Α	320
Protection fuse	.,		
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)	am (120)	A	380
Breaking capacity at voltage		- , ,	
breaking capacity at voltage	Breaking capacity 440V	Α	304
	Breaking capacity 500V	A	240
	Breaking capacity 690V	A	192
Pacietanea par pala (averaga valua)	Бтеакту Сарасту 6907	mΩ	2
Resistance per pole (average value)		11122	
Power dissipation per pole (average value)	Device discination note (access to the control of the	147	0
	Power dissipation pole (average value) Ith	W	6
	AC3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbft	1.8
	max	lbft	2.2
Tightening torque for coil terminal			



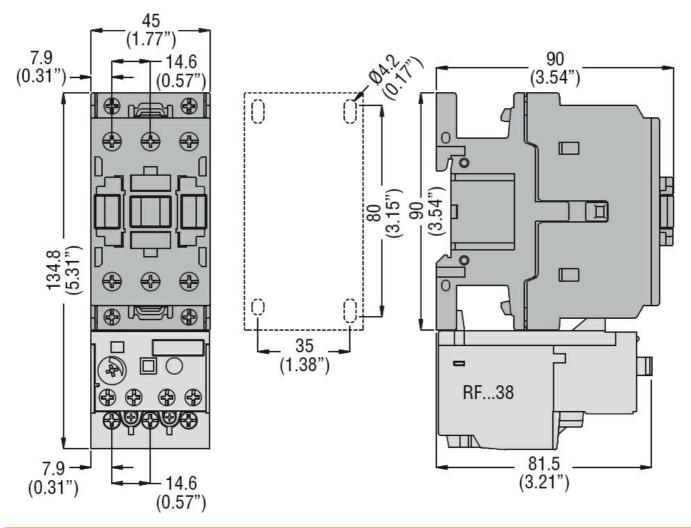
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with 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
Analaine to a seculition of				35mm
Ambient conditions				
Temperature				
	Operating temperature		°C	5 0
		min	°C	-50 -70
	Otana na tana anatana	max	°C	70
	Storage temperature		°C	00
		min	°C	-60
Marratituda		max	°C	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.426
Operations			9	01.120
Mechanical life			Cycles	20000000
Electrical life			Cycles	1400000
Safety related data			5,5155	
· ·	10d according to EN/ISO 13489-1			
		rated load	Cicli	1400000
	med	nanical load	Cicli	2000000
Mirror contats accord	ing to IEC/EN 609474-4-1		2.0	yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
Je sporanieg vonago	of 50/60Hz coil powered at 50Hz			
	pick-up			
	bioli ab	min	%Us	0.8
			,500	5.5



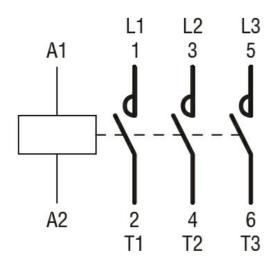
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	plan ap	min	%Us	0.85
		max	%Us	1.1
	drop-out		,,,,,	
	arop out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	Пах	7000	0.00
	pick-up			
	ρισκ-αρ	min	%Us	0.8
		max	%Us	1.1
	drop out	IIIax	/005	1.1
	drop-out	min	%Us	0.2
A O		max	%Us	0.55
AC operating voltage	(50/00LL			
	of 50/60Hz coil powered at 50Hz	2 1	1.74	75
		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		W	2.5
Max cycles frequency				
Mechanical operations			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			
,		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical pe	erformance			
'	for single-phase AC motor			
	g.c p	at 110/120V	hp	3
		at 230V	hp	7.5
	for three-phase AC motor	3. 200 V	٠.٢	
	is. and phase no motor	at 200/208V	hp	10
		at 220/230V	hp	15
		at 460/480V	hp	30
		at 575/600V	hp	30
General USE		at 07 0/000 V	ייף	

Contactor

	AC current	Α	32	
Other features				
Pollution degree			3	
Dimonsions				



Wiring diagrams



Certifications and compliance

Certifications



BF3800A230

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