



Product designation Product type designation			Power contactor BF80
Contact characteristics			DFOU
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated insulation voltage On LC/LIN Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ΝV	0
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	115
Operational current le			110
	AC-1 (≤40°C)	А	115
	AC-1 (≤55°C)	A	95
	AC-1 (≤70°C)	A	80
	AC-3 (≤440V ≤55°C)	A	80
	AC-4 (400V)	А	38
Rated operational current AC-3 (T≤55°C)	· · · · · · · · · · · · · · · · · · ·		
	230V	А	80
	400V	А	80
	415V	А	80
	440V	А	80
	500V	А	78
	690V	А	57
	1000V	А	28
Rated operational power AC-1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	70
	48V	А	60
	75V	A	60
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	100
	48V	A	100
	75V	A	100
	110V	A	80
	220V	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			400
	≤24V	A	100
	48V	A	100
	75V	А	100



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	110V	А	85
	220V	А	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	100
	220V	А	115
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	40
	48V	А	30
	75V	Α	30
	110V	А	3
	220V	Α	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	Α	60
	48V	А	50
	75V	А	50
	110V	А	40
	220V	A	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	80
	48V	A	70
	75V	A	70
	110V	Α	60
	220V	A	64
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	A	90
	48V	А	90
	75V	A	90
	110V	A	75
	220V	<u>A</u>	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	A	125
	aM (IEC)	<u>A</u>	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			0.40
	440V	A	640
	500V	A	625
	690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	1.1	147	7.0
	Ith	W	7.9
Tinktonia a tenno fea tennia de	AC-3	W	3.8
Tightening torque for terminals		N 1 -	4
	min	Nm	4
	max	Nm	5
	min	lbin Ibin	2.95
Tightening termine for cell terreinel	max	lbin	3.69
Tightening torque for coil terminal	•	N.I	0.0
	min	Nm	0.8
	max	Nm	1



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		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			0
	Flovible w/e lug conductor costion	max		2
	Flexible w/o lug conductor section	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	Παλ	11111	55
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529	max		IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
				35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	1500000
Electrical life			cycles	1300000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1	roto d lo o d		1200000
		rated load	cycles	1300000 15000000
Mirror contato accord	ling to IEC/EN 609474-4-1	mechanical load	cycles	
EMC compatibility	ling to IEC/EN 809474-4-1			yes
AC coil operating				yes
Rated AC voltage at 6	60Hz		V	120
AC operating voltage			v	120
operating voltage	of 60Hz coil powered at 60Hz			
	pick-up			
	Prov ab	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil cons	sumption at 20°C			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	210
		holding	VA	15
Dissipation at holding			W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of				
	in AC			
	Closing NO			

Closing NO

BF80T4A12060



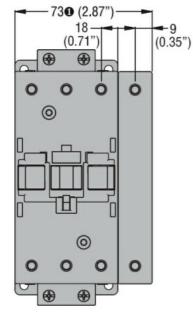
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 115A, AC COIL 60HZ,

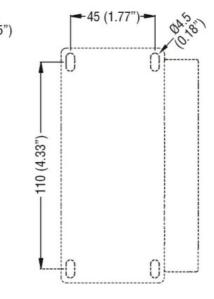
120VAC

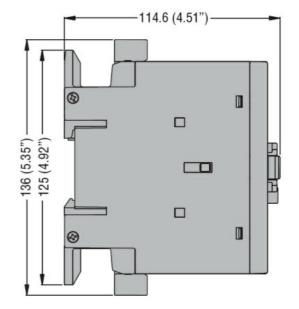
			min	ma	12
			min	ms	
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
		1 5	min	ms	20
			max	ms	55
UL technical data			max	1110	00
	LA) for three-phase	AC motor			
	LATION UNCE-PHASE		at 4001/	٨	77
			at 480V	A	77
			at 600V	А	77
Yielded mechanica	•				
	for three-phase	e AC motor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
	•••••••		AC current	А	115
Short-circuit protec	tion fuse 600V				110
onon encar protect					
	High fault		Chart size vit averaget	1. 4	100
			Short circuit current	kA	100
			Fuse rating	А	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	200
			Fuse class		RK5
Ambient conditions	;				
Temperature					
	Operating temp	perature			
			min	°C	-50
			max	°C	70
	Storage tempe	ratura	Παλ	0	10
	Storage temper	าสเนาช		° ^	60
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Prote	ection				
Pollution degree					3
Dimensions					



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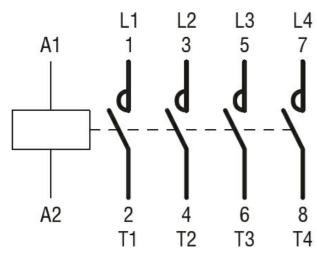






1 BF80T2 82mm/3.23"

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				
	UL 60947-4-1				
Certificates					
	CCC				
	cULus				
ETIM classification	on				
ETIM 8.0		EC000066 - Power contactor, AC switching			