

B	1	301
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Product designation Product type designat	ion			Power contactor BFD80
Contact characteristics				BI 200
Number of poles	5		Nr.	4
Rated insulation voltage	ne Lli IEC/EN		V	1000
Rated impulse withsta			kV	8
Operational frequency	· ·			0
oporational noquonoy		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith	max	A	115
Operational current le				
		AC-1 (≤40°C)	А	160
IEC max current le in	DC1 with L/R \leq 1ms with 4 poles in series			
		400V	А	115
		600V	A	100
		800V	A	90
		1000V	А	80
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	640
Protection fuse				
		gG (IEC)	А	125
		aM (IEC)	А	80
Resistance per pole (a	average value)		mΩ	0.6
Power dissipation per				
		Ith	W	7.9
Tightening torque for t	erminals			
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section		-	
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		~	
		min	mm²	1.5
		max	mm²	35
Power terminal protec	tion according to IEC/EN 60529			IP20 front

BFD80T4A02460 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Machanical fastura

Mechanical features					
Operating position					
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rail 35mm
Weight				g	1240
Conductor section				Ŭ	
	AWG/kcmil condu	ictor section	max		2
Operations			Шах		2
Mechanical life				cycles	15000000
Safety related data				0)0100	1000000
Performance level B1	0d according to EN/	/ISO 13489-1			
	J		mechanical load	cycles	15000000
EMC compatibility				,	yes
AC coil operating					
Rated AC voltage at 6	0Hz			V	24
AC operating voltage					
	of 60Hz coil powe	red at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	•				
	of 60Hz coil powe	red at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding				W	5
Max cycles frequency				//	0000
Mechanical operation				cycles/h	3600
Operating times	ontrol				
Average time for Us c	in AC				
	III AC	Closing NO			
		Closing NO	min	ms	12
			max	ms	28
		Opening NO	Παλ	1113	
		oponing i to	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
		-	min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115

4 poles in series DC1



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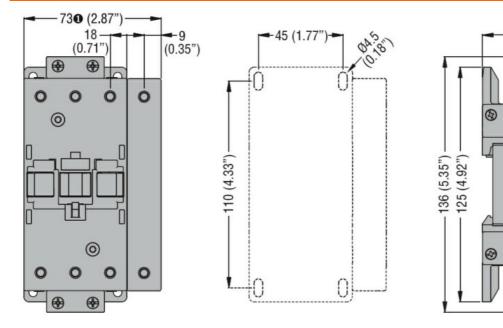
114.6 (4.51")

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FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 24VAC 60HZ

		600V	А	100
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
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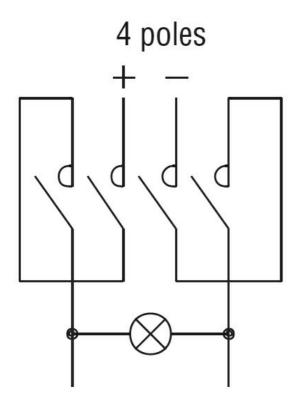
Dimensions



• BF80T2 82mm/3.23"

Wiring diagrams





Certifications and cor	npliance	
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		
	cULus	
ETIM classification		
		E0000550

ETIM 8.0

EC002552 -Power contactor, DC switching