



Product designation Product type designation			Dayyar aantaatar
•			Power contactor
1 Toddot typo dooignation			BFD80
Contact characteristics			
Number of poles		nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	115
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
· ·	400V	Α	100
	600V	Α	100
	800V	Α	76
	1000V	Α	60
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
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			
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 protection according to IEC/EN 60529			IP20 front
Mechanical features			
Operating position			
Operating position	normal allowable		vertical plan ±30°



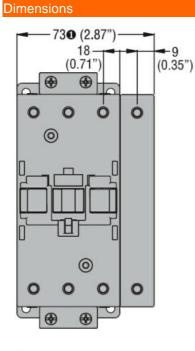
ENERGY AND AUTOMATION

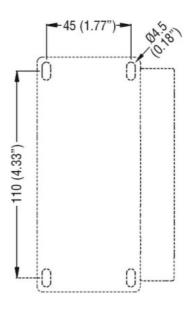
Fixing					Screw / DIN rail 35mm
Weight				g	1240
Operations					
Mechanical life				cycles	15000000
Safety related data					
Performance level B	10d according to EN/	ISO 13489-1			
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at	50/60Hz, 60Hz				
			min	V	12
			max	V	600
AC operating voltage					
	of 50/60Hz coil po				
		pick-up			
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	wered at 60Hz			
		pick-up			
			min	%Us	85
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC operating voltage	e at 20°C				
	of 50/60Hz coil po	wered at 50Hz			
			in-rush	VA	210
			holding	VA	15
	of 50/60Hz coil po	wered at 60Hz			
			in-rush	VA	195
			holding	VA	13
	of 60Hz coil powe	red at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	g ≤20°C 50Hz			W	5
Max cycles frequenc					
Mechanical operatior	1			cycles/h	3600
Operating times					
Average time for Us	control				
-	in AC				
		Closing NO			
		Ü	min	ms	12
			max	ms	28
		Opening NO		-	
		, 5	min	ms	8
			max	ms	22
	in DC				
	2 3	Closing NO			
		5.559 . 10		mo	40
			rmin -	1115	40
			min max	ms ms	85

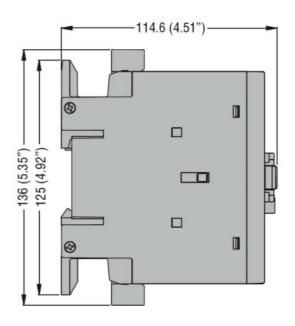


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		min	ms	20		
		max	ms	55		
UL technical data						
General USE						
	Contactor					
		AC current	Α	115		
	4 poles in series DC1			_		
		600V	Α	100		
Ambient conditions						
Temperature						
	Operating temperature					
		min	°C	-50		
		max	°C	70		
	Storage temperature					
		min	°C	-60		
		max	°C	80		
Max altitude			m	3000		
Resistance & Protection						
Pollution degree				3		



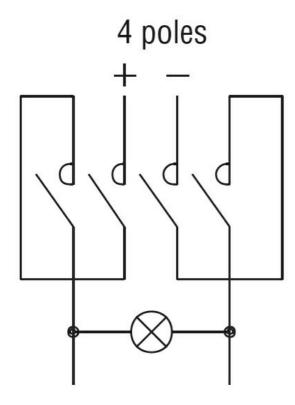




① BF80T2 82mm/3.23"

Wiring diagrams





Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1.

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-4-1

Certificates

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