



Product designation			Power contactor
Product type designation			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
Operational current le			
	AC-1 (≤40°C)	Α	160
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	,		
'	400V	Α	115
	600V	Α	100
	800V	Α	90
	1000V	Α	80
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)			
, ,	lth	W	7.9
Tightening torque for terminals	<u> </u>		
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Max number of wires 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 protection according to IEC/EN 60529			IP20 front



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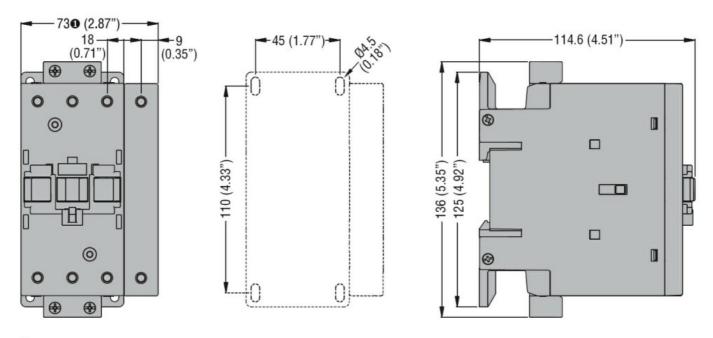
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rai
\Maight				35mm 1280
Weight Conductor section			g	1200
	AWG/kcmil conductor section			
	AVO/Kerriii coridacior section	max		2
Operations		max		_
Mechanical life			cycles	15000000
Safety related data			,	
Performance level B10c	d 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	100
		max	V	250
AC operating voltage	/ To look			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out	IIIdA	/003	110 03 max
	drop out	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz		,,,,,	
	pick-up			
	·	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil consun	•			
	of 50/60Hz coil powered at 50Hz	,		05 400
		in-rush	VA	35120
	of EO/COLLT and powered at COLLT	holding	VA	1.53.7
	of 50/60Hz coil powered at 60Hz	in-rush	VA	35120
		holding	VA	1.53.7
	of 60Hz coil powered at 60Hz	Holding	٧, ١	1.00.1
	2. 22.12 23.1 porror 00 at 20112	in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤2	20°C 50Hz	<u> </u>	W	12.5
DC coil operating				
DC rated control voltage)			
		min	V	100
		max	V	250
DC operating voltage				
	pick-up			
		min	%Us %Us	≤80 Us min ≤110 Us max
		max	0/11-	444(111



			max	%Us	≤70 Us min	
Average coil consumption ≤20°C						
			in-rush	W	2368	
			holding	W	1.21.9	
Max cycles frequency						
Mechanical operation				cycles/h	1500	
Operating times						
Average time for Us con						
	in AC					
		Closing NO				
			min	ms	40	
			max	ms	85	
		Opening NO				
			min	ms	20	
			max	ms	55	
	in DC					
		Closing NO				
			min	ms	40	
			max	ms	85	
		Opening NO			0.0	
			min	ms	20	
LIL Control of the Late			max	ms	55	
UL technical data						
General USE	2					
	Contactor		A.C	۸	445	
	4 1 : : : : : : : : : : : : : : : : : :		AC current	Α	115	
	4 poles in series DC1		0001	Δ.	100	
A mala i a má a a malidia ma			600V	Α	100	
Ambient conditions						
Temperature						
	Operating temperature			0.0	40	
			min	°C	-40 -70	
	01		max	°C	70	
	Storage temperature			0.0	F0	
			min	°C	-50	
Maria Ida I			max	°C	80	
Max altitude				m	3000	
Resistance & Protection	n _					
Pollution degree					3	
Dimensions [mm (in)]						

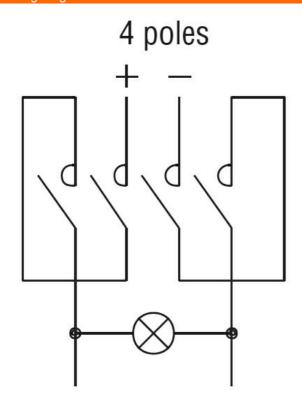


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BF80T2 82mm/3.23"

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





CONTACTEUR BFD80T4E, 4P (NO), 80A/1000V DC1, 100-250VAC/DC

Certificates

cULus

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching