

9	301
1	

Product designation			Power contactor BFD80
Product type designation Contact characteristics			BFD00
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		κv	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	115
IEC conventional free all thermal current fith IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		A	115
IEC max current le in DCT with L/K = mis with 4 poles in series	400V	۸	115
	400V 600V	A A	100
	800V 800V	A	90
	1000V		80
Short-time allowable current for 10s (IEC/EN60947-1)	1000 v	A A	640
Protection fuse		A	040
Piolection fuse		^	405
	gG (IEC)	A	125 80
Desistance per pole (overage value)	aM (IEC)	A	
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	lth	W	7.0
Tightoning torque for terminole	lth	VV	7.9
Tightening torque for terminals		Niss	4
	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
Tightoning targue for eail terminal	max	lbin	3.69
Tightening torque for coil terminal		Niss	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	0.8
Max number of wires simultaneously connectable	max	Ibin Nr.	0.74
Max number of wires simultaneously connectable		INI.	2
Conductor section			
AWG/Kcmil			0
Flavible w/a lug conductor costion	max		2
Flexible w/o lug conductor section			4 5
	min	mm²	1.5
Flavible of using conductor conting	max	mm²	35
Flexible c/w lug conductor section			4 5
	min	mm²	1.5
Dower terminal protection opporting to JEC/EN 00500	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position



BFD80T4A46060 FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 460VAC 60HZ

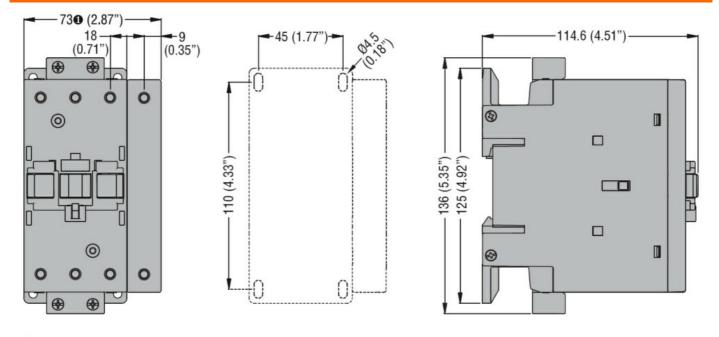
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rai 35mm
Weight				g	1240
Conductor section					
	AWG/kcmil conductor	section			
			max		2
Operations					
Nechanical life				cycles	15000000
Safety related data					
Performance level B10	Od according to EN/ISO	13489-1			
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					100
Rated AC voltage at 60	JHZ			V	460
AC operating voltage		-+			
	of 60Hz coil powered				
		pick-up	min	0/110	80
			min	%Us %Us	80 110
		drop-out	max	%05	110
		ulop-out	min	%Us	20
			max	%Us	55
AC average coil consu	motion at 20°C		Пах	/000	00
to average con consu	of 60Hz coil powered	at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding :	≤20°C 50Hz			W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
		_	max	ms	22
	in DC				
		A I I I I I I			
		Closing NO			
		Closing NO	min	ms	40
		-	min max	ms ms	40 85
		Closing NO Opening NO	max	ms	85
		-	max	ms ms	85 20
II technical data		-	max	ms	85
UL technical data		-	max	ms ms	85 20
JL technical data General USE	Contactor	-	max	ms ms	85 20
	Contactor	-	max min max	ms ms ms	85 20 55
		Opening NO	max	ms ms	85 20
	Contactor 4 poles in series DC1	Opening NO	max min max	ms ms ms	85 20 55

BFD80T4A46060 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



Temperature

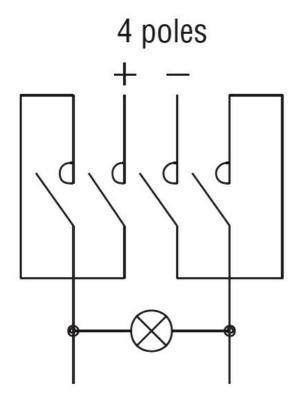
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



BF80T2 82mm/3.23"

Wiring diagrams





Certifications and con	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		

ETIM 8.0

EC002552 -Power contactor, DC switching