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Product designation Product type designatio	n			Power contactor BFD80
Contact characteristics	11			BFD80
Number of poles			Nr.	4
Rated insulation voltage			V	1000
Rated impulse withstand			kV	8
Operational frequency			i v	0
operational frequency		min	Hz	25
		max	Hz	400
IEC Conventional free a	ir thermal current Ith	max	A	115
	C1 with $L/R \le 1$ ms with 4 poles in series			
		400V	А	115
		600V	A	100
		800V	A	90
		1000V	A	80
Short-time allowable cu	rrent for 10s (IEC/EN60947-1)		A	640
Protection fuse				010
		gG (IEC)	А	125
		aM (IEC)	A	80
Resistance per pole (av	verage value)		mΩ	0.6
Power dissipation per p				010
r ener discipation per p		lth	W	7.9
Tightening torque for ter	rminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for co	il terminal			
5 - 5 - 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires sir	multaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section			
	5	min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section	-		
	6	min	mm²	1.5
		max	mm²	35
Power terminal protection	on according to IEC/EN 60529			IP20 front
Mechanical features				

Operating position



BFD80T4A04860 FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 48VAC 60HZ

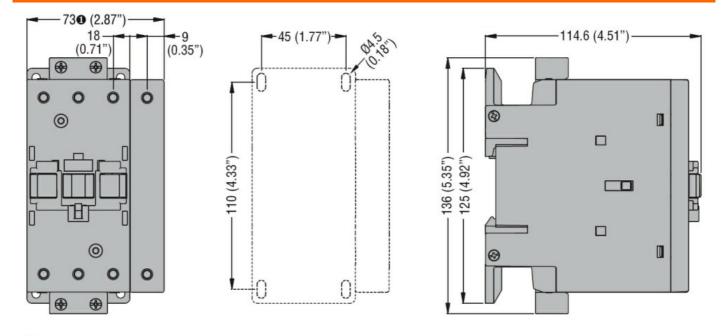
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rai 35mm
Neight				g	1240
Conductor section					
	AWG/kcmil conducto	or section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data	d according to EN/IS	C 12490 1			
Penormance level Bit	Od according to EN/IS	J 13469-1	mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 6	0Hz			V	48
AC operating voltage					
	of 60Hz coil powered				
		pick-up		0/11-	
			min	%Us	80
		drop out	max	%Us	110
		drop-out	min	%Us	20
			max	%Us	55
AC average coil consu	Imption at 20°C		Пах	/000	00
.e	of 60Hz coil powered	d 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					
	in AC				
		Closing NO	min	ma	10
			min	ms	12 28
		Opening NO	max	ms	20
		opening No	min	ms	8
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
II to show to be the			max	ms	55
JL technical data					
	Operation				
General USE				^	445
General USE	Contactor				
General USE		1	AC current	A	115
General USE	4 poles in series DC	1	AC current 600V	A	100

BFD80T4A04860 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



4 poles

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