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Product designation Product type designa	tion			Power contactor BFD80
Contact characteristic				51 500
Number of poles			Nr.	4
Rated insulation volta	ige Ui IEC/EN		V	1000
Rated impulse withsta	-		kV	8
Operational frequenc	у			
	-	min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		А	115
Operational current le	9			
		AC-1 (≤55°C)	А	0
IEC max current le in	DC1 with L/R $\leq$ 1ms with 4 poles in series			
		400V	А	115
		600V	А	100
		800V	А	90
		1000V	Α	80
Short-time allowable	current for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	А	125
		aM (IEC)	Α	80
Resistance per pole (	(average value)		mΩ	0.6
Power dissipation per	r 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	lbin	0.8
<u> </u>		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			0
		max		2
	Flexible w/o lug conductor section			4 5
		min	mm²	1.5
	Elevible o/w lug conductor apption	max	mm²	35
	Flexible c/w lug conductor section	min	$mm^2$	15
		min	mm² mm²	1.5 35
Dowor torminal proto	ction according to IEC/EN 60520	max	11111-	IP20 front
Fower terminal prote	ction according to IEC/EN 60529			

BFD80T4A23060 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



Mechanical features

Operating position		
	normal	Vertical plan
	allowable	±30°
Fixing		Screw / DIN rail
Fixing		35mm
Weight	g	1240
Conductor section		

AWG/kcmil conductor section

			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data					
Performance level B1	0d according to EN/ISO	13489-1			
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 6	0Hz			V	230
AC operating voltage					
	of 60Hz coil powered a	at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C				
	of 60Hz coil powered a	at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	≤20°C 50Hz			W	5
Max avalas frequency					
Max cycles frequency					
Mechanical operation				cycles/h	3600
Mechanical operation Operating times				cycles/h	3600
Mechanical operation	ontrol			cycles/h	3600
Mechanical operation Operating times	ontrol in AC			cycles/h	3600
Mechanical operation Operating times		Closing NO		cycles/h	3600
Mechanical operation Operating times		Closing NO	min	cycles/h	3600
Mechanical operation Operating times			min max		
Mechanical operation Operating times		Closing NO Opening NO		ms	12
Mechanical operation Operating times				ms	12 28 8
Mechanical operation Operating times	in AC		max	ms ms	12 28
Mechanical operation Operating times		Opening NO	max min	ms ms ms	12 28 8
Mechanical operation Operating times	in AC		max min max	ms ms ms	12 28 8 22
Mechanical operation Operating times	in AC	Opening NO	max min max min	ms ms ms ms	12 28 8 22 40
Mechanical operation Operating times	in AC	Opening NO Closing NO	max min max	ms ms ms ms	12 28 8 22
Mechanical operation Operating times	in AC	Opening NO	max min max min max	ms ms ms ms ms	12 28 8 22 40 85
Mechanical operation Operating times	in AC	Opening NO Closing NO	max min max min max min	ms ms ms ms ms ms	12 28 8 22 40 85 20
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO	max min max min max	ms ms ms ms ms	12 28 8 22 40 85
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO	max min max min max min	ms ms ms ms ms ms	12 28 8 22 40 85 20
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO	max min max min max min	ms ms ms ms ms ms	12 28 8 22 40 85 20
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO	max min max min max min max	ms ms ms ms ms ms ms	12 28 8 22 40 85 20 55
Mechanical operation Operating times Average time for Us co	in AC	Opening NO Closing NO	max min max min max min	ms ms ms ms ms ms	12 28 8 22 40 85 20

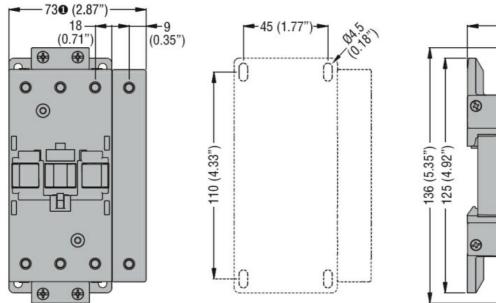


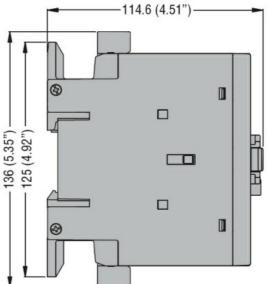
## BFD80T4A23060

FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 230VAC 60HZ

		600V	А	100
Ambient conditions				
Temperature				
Oper	ating temperature			
		min	°C	-50
		max	°C	70
Stora	age temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Pollution degree				3

## Dimensions

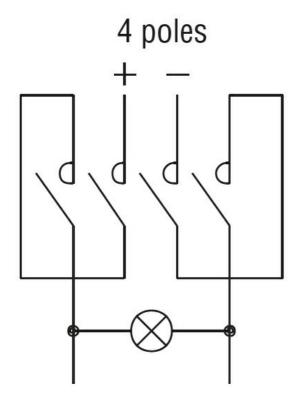




**1** BF80T2 82mm/3.23"

Wiring diagrams





Certifications and cor	mpliance	
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		
		F0000550

ETIM 8.0

EC002552 -Power contactor, DC switching