



Product designation			Power contacto
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		А	115
Operational current le			
	AC-1 (≤55°C)	А	0
IEC max current le in DC1 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 current for 10s (IEC/EN60947-1)	10001	A	640
Protection fuse			040
	gG (IEC)	А	125
	aM (IEC)	A	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)		11152	0.0
r ower dissipation per pole (average value)	lth	W	7.9
Tightening torque for terminals	101	vv	1.5
	min	Nm	4
		Nm	
	max	Ibin	5 2.95
	min	Ibin	2.95 3.69
Tightening torque for coil terminal	max		3.09
rightening torque for conterminal	min	Nim	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin Ibin	0.8
May number of wires simultaneously connectable	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
	max		2
Flexible w/o lug conductor section		2	4 5
	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

## Power terminal protection according to IEC/EN 60529



Mechanical features

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

AWG/kcmil conductor section

		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10	Dd according to EN/ISO 13489-1			
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	D/60Hz		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	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

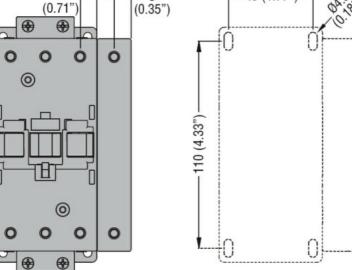
BFD80T4A110

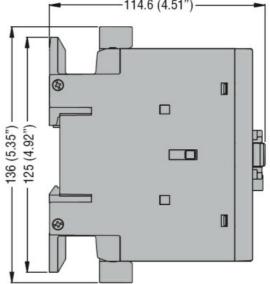


## BFD80T4A110

FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 110VAC 50/60HZ

		max	ms	22
	in DC			
	Closing NO			
		min	ms	40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
UL technical data				
General USE				
	Contactor			
		AC current	A	115
	4 poles in series DC1			
		600V	A	100
Ambient conditions				
Temperature				
	Operating temperature		° <b>^</b>	50
		min	°C	-50
	<u></u>	max	°C	70
	Storage temperature		° <b>^</b>	<u></u>
		min	°C	-60
Mary altitude		max	°C	80
Max altitude			m	3000
Resistance & Protec				2
Pollution degree				3
Dimensions				
730 (2.87")-				
18	- 45 (1.77")- 55	-	-114.6 (	(4.51")
(0.71")	(0.35")			

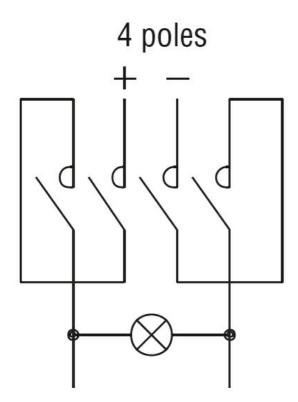




## **1** BF80T2 82mm/3.23"

## 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		

ETIM 8.0

EC002552 -Power contactor, DC switching