



				10 10 10
Product designation				Power contactor
Product type designa	tion			BFD80
Contact characteristic	es S			
Number of poles			Nr.	4
Rated insulation volta	ge Ui IEC/EN		V	1000
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequenc	у			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	115
Operational current le	9			
•		AC-1 (≤55°C)	Α	0
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
	r pole (average value)			
	1 (	lth	W	7.9
Tightening torque for	terminals			
5 5 1		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
		max	Ibin	0.74
Max number of wires	simultaneously connectable	max	Nr.	2
Conductor section	Similario della commodiano		141.	
Conductor Socion	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	max		
	i levinie mio ind collingicioli sectioni	min	mm²	1.5
				35
	Flovible c/w lug conductor section	max	mm²	<i>ა</i> ა
	Flexible c/w lug conductor section	min	mm²	1.5
		min	mm²	1.5
Davier territaria de ser (c.	etion according to IFO/FN 00500	max	mm²	35
Power terminal prote	ction according to IEC/EN 60529			IP20 front



**ENERGY AND AUTOMATION** 

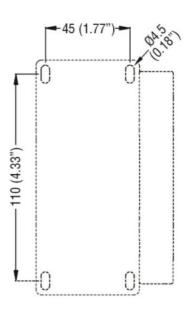
Operating position					
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rai 35mm
Veight				g	1240
Conductor section					
	AWG/kcmil condu	uctor section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Performance level B1	Od according to EN	/ISO 13489-1			
onomanoo lovor B i	od dooording to Ert	7100 10100 1	mechanical load	cycles	15000000
EMC compatibility			THEOHAINEAN IOAA	Cyclos	yes
AC coil operating					yes
Rated AC voltage at 6	0H <sub>7</sub>			V	220
AC operating voltage	OI 12			V	220
AC operating voltage	of COLI= oo:  power	are d of COLI-			
	of 60Hz coil power				
		pick-up		0/11-	00
			min	%Us	80
			max	%Us	110
		drop-out		0/11	
			min	%Us	20
			max	%Us	55
AC average coil consu					
	of 60Hz coil power	ered 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			
		o.com.g	min	ms	12
			max	ms	28
		Opening NO	max	5	
		Sporting NO	min	ms	8
			max	ms	22
	in DC		IIIdX	1113	
	III DO	Closing NO			
		Closing NO	min	me	40
			min	ms ms	
		Opening NO	max	ms	85
		Opening NO	•	,co	20
			min	ms	20
			max	ms	55
JL technical data					
General USE					
Conoral CCL					
Sonoral SSE	Contactor				
	Contactor		AC current	Α	115

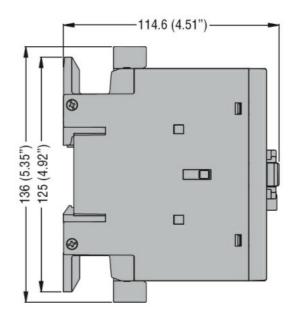


**ENERGY AND AUTOMATION** 

		600V	Α	100
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	on			
Pollution degree				3
Dimensions				

## 73**0** (2.87") 18 (0.71") (0.35")

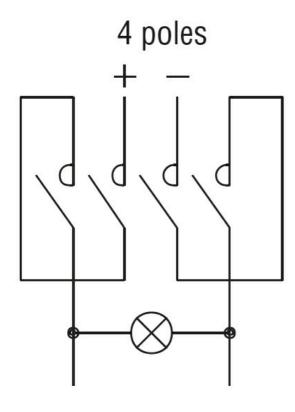




1 BF80T2 82mm/3.23"

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

Certificates

cULus

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching