



Product designation			Power contactor
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		Α	115
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
Power dissipation per 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
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		2
Flexible w/o lug conductor section			
	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
Mechanical features			

Operating position



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			normal allowable		Vertical plan ±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	d according to EN/ISO	13489-1			
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 60	)Hz			V	120
AC operating voltage					
	of 60Hz coil powered a				
		pick-up		0/11	
			min	%Us	80
		to a contract	max	%Us	110
		drop-out		0/11-	00
			min	%Us	20
AC average sell consu	mention at 20°C		max	%Us	55
AC average coil consu		ot COU¬			
	of 60Hz coil powered a	II 0UTZ	in-rush	VA	210
			holding	VA VA	15
	(20°C 50H <del>-</del> 7		Holding	W	5
Max cycles frequency	320 G 30112			VV	3
Mechanical operation				cycles/h	3600
Operating times				oy oloo, ii	
Average time for Us co	ontrol				
3	in AC				
		Closing NO			
		J	min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			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	0 1 1				
	Contactor				445
	4		AC current	Α	115
	4 poles in series DC1		0001/	٨	100
Ambient conditions			600V	Α	100
ATTIDIENT CONCILIONS	tion donosiles discussion d	a publicat to undetermined to	a at any time. The desired	a tasker l	



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## Temperature

Operating to	emperature
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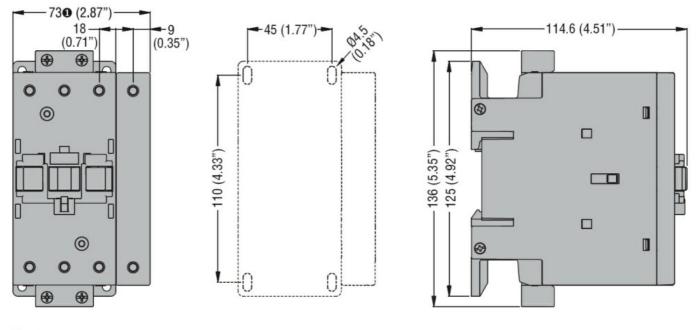
	min	°C	-50	
	max	°C	70	
Storage temperature				
	min	°C	-60	
	max	°C	80	
		m	3000	
n				

## Resistance & Protection

Pollution degree 3

## **Dimensions**

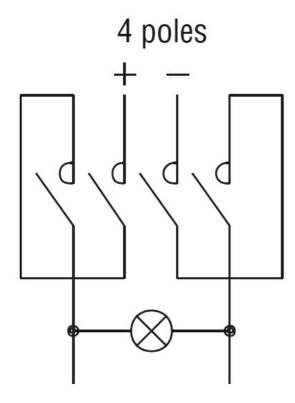
Max altitude



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