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Product designation				Power contactor
Product type designati	on			BFD80
Contact characteristics	3			
Number of poles			Nr.	3
Rated insulation voltag	je Ui IEC/EN		V	1000
Rated impulse withstar	nd voltage Uimp		kV	8
Operational frequency				
		min	Hz	25
		max	Hz	400
IEC Conventional free	air thermal current Ith		Α	115
Operational current le				
		AC-1 (≤55°C)	Α	130
IEC max current le in [	DC1 with L/R ≤ 1ms with 3 poles in series			
		400V	Α	100
		600V	Α	80
		800V	Α	65
		1000V	Α	60
Short-time allowable c	urrent for 10s (IEC/EN60947-1)		Α	640
Protection fuse				
		gG (IEC)	Α	125
		aM (IEC)	Α	80
Resistance per pole (a	verage value)		mΩ	0.6
Power dissipation per	pole (average value)			
		Ith	W	7.9
Tightening torque for to	erminals			
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	lbin	0.74
	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 protect	tion according to IEC/EN 60529			IP20 front



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Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
					35mm
Weight				g	1240
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	0011			\ /	575
Rated AC voltage at 6	50Hz			V	575
AC operating voltage	. ( 0011				
	of 60Hz coil powe				
		pick-up	i-	0/11-	0.0
			min	%Us %Us	80 110
		drop-out	max	/oUS	110
		drop-out	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C		max	7000	
to avolago con cono.	of 60Hz coil power	red at 60Hz			
	01 001 12 0011 powe	100 01 001 12	in-rush	VA	210
			holding	VA	15
Dissipation at holding	≤20°C 50Hz		<u></u>	W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c					
	ontrol				
3.7	ontrol in AC				
		Closing NO			
		Closing NO	min	ms	12
		Closing NO	min max	ms ms	12 28
		Closing NO Opening NO			
		-			28
	in AC	-	max	ms	28
		Opening NO	max min	ms ms	28
	in AC	-	max min max	ms ms ms	28 8 22
	in AC	Opening NO	max min max min	ms ms ms	28 8 22 40
	in AC	Opening NO  Closing NO	max min max	ms ms ms	28 8 22
	in AC	Opening NO	max min max min max	ms ms ms	28 8 22 40 85
	in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms	28 8 22 40 85 20
	in AC	Opening NO  Closing NO	max min max min max	ms ms ms	28 8 22 40 85
JL technical data	in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms	28 8 22 40 85 20 55
UL technical data Rated operational volt	in AC	Opening NO  Closing NO	max min max min max min max min	ms ms ms	28 8 22 40 85 20
UL technical data Rated operational volt	in AC in DC	Opening NO  Closing NO	max min max min max min max min	ms ms ms	28 8 22 40 85 20 55
UL technical data Rated operational volt	in AC	Opening NO  Closing NO	max min max min max min max	ms ms ms ms ms	28 8 22 40 85 20 55
UL technical data Rated operational volt General USE	in AC in DC  age AC (UL)  Contactor	Opening NO  Closing NO  Opening NO	max min max min max min max min	ms ms ms	28 8 22 40 85 20 55
UL technical data Rated operational volt	in AC in DC	Opening NO  Closing NO  Opening NO	max min max min max min max	ms ms ms ms ms	28 8 22 40 85 20 55



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# Temperature Operating temperature

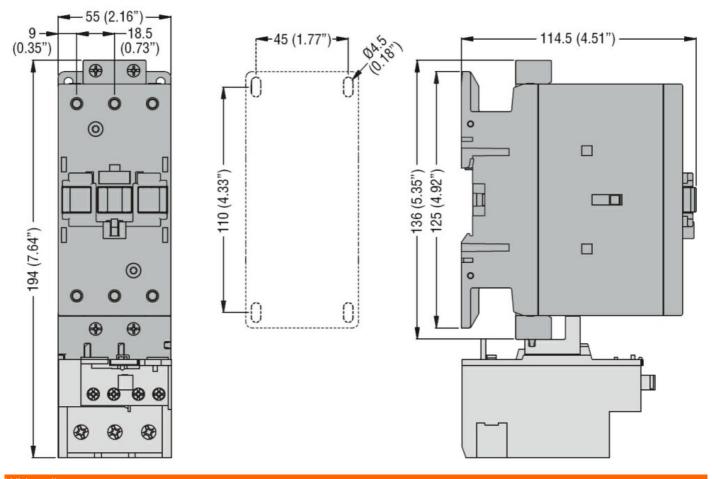
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
		m	3000
ion			

### Resistance & Protection

Pollution degree 3

### **Dimensions**

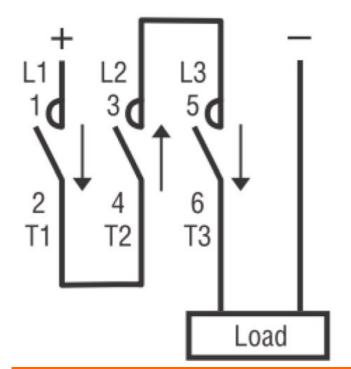
Max altitude

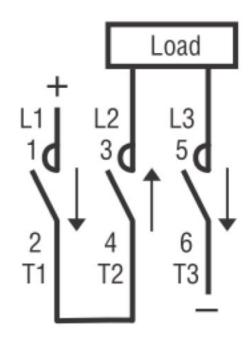


Wiring diagrams



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## 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

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching