



Product designation			Power contactor
Product type designation Contact characteristics			BFD80
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated insulation voltage of IEC/EN Rated impulse withstand voltage Uimp		kV	8
·		ΚV	0
Operational frequency		1.1-	0.5
	min	Hz	25 400
IEC Conventional free air thermal current Ith	max	Hz_	115
		A	110
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	400\/	۸	100
	400V	A	100
	600V	A	80
	800V	A	65
Chart time allowable augreent for 40a (IEC/ENCO047.4)	1000V	A 	60
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse	~O (IEO)	۸	405
	gG (IEC)	A	125
Desigtance nor note (average value)	aM (IEC)	A	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)	الماء	۱۸/	7.0
Timbtoning tours of automaticals	Ith	W	7.9
Tightening torque for terminals		N	4
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
Timber in a transport for a cit to make al	max	lbin	3.69
Tightening torque for coil terminal		N	0.0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
May number of using a impultance uply compactable	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			0
Elevible w/e les en destes en stiere	max		2
Flexible w/o lug conductor section		ma :== 2	1 E
	min	mm²	1.5
Flavible ato ton an doctor and to	max	mm²	35
Flexible c/w lug conductor section	* .		4.5
	min	mm²	1.5
Device to recipal contention according to 150/FN 00500	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	r section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data					
	0d according to EN/ISC) 13489-1			
	3		mechanical load	cycles	15000000
EMC compatibility				-,	yes
AC coil operating					700
Rated AC voltage at 6	0Hz			V	120
AC operating voltage	0112			•	120
, to operating voltage	of 60Hz coil powered	at 60Hz			
	or our iz con powered	pick-up			
		pick-up	min	%Us	80
			min		
		duam acut	max	%Us	110
		drop-out		0/11-	00
			min	%Us	20
			max	%Us	55
AC average coil consu	•				
	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				
•	Jillioi				
•	in AC				
-		Closing NO			
•		Closing NO	min	ms	12
•		Closing NO	min max	ms ms	12 28
		Closing NO Opening NO			
		-			
		-	max	ms	28
		-	max min	ms ms	28 8
	in AC	-	max min	ms ms	28 8
	in AC	Opening NO	max min max	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 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
UL technical data	in AC	Opening NO Closing NO	max min max min max min max min	ms ms ms ms	28 8 22 40 85 20
	in AC	Opening NO Closing NO	max min max min max min max min	ms ms ms ms	28 8 22 40 85 20
UL technical data	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	in AC in DC Contactor	Opening NO Closing NO Opening NO	max min max min max min max min	ms ms ms ms	28 8 22 40 85 20
UL technical data	in AC	Opening NO Closing NO Opening NO	max min max min max min max AC current	ms ms ms ms ms	28 8 22 40 85 20 55
UL technical data	in AC in DC Contactor	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

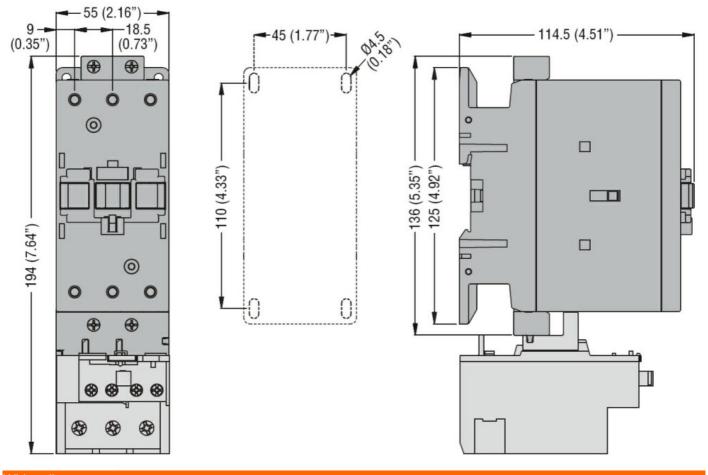
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
		m	3000
ion			

Resistance & Protection

Pollution degree 3

Dimensions

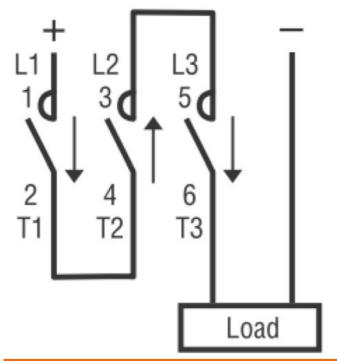
Max altitude

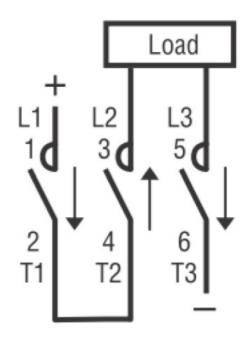


Wiring diagrams



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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