



			10 10 10
Product designation			Power contactor
Product type designation			BFD80
Contact characteristics			
Number of poles		Nr.	3
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
Operational current le			
	AC-1 (≤40°C)	Α	160
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 current for 10s (IEC/EN60947-1)		A	640
Protection fuse			0.10
Tiologicii idoo	gG (IEC)	Α	125
	aM (IEC)	A	80
Resistance per pole (average value)	aivi (iEO)	mΩ	0.6
Power dissipation per pole (average value)		11122	0.0
Tower dissipation per pole (average value)	Ith	W	7.9
Tightening torque for terminals	101	**	1.0
Tightering torquo for terminate	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	max	10111	0.00
Tightering torque for som terminar	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		1 41.	
AWG/Kcmil			
AWOATOHIII	max		2
Flexible w/o lug conductor section	max		<u></u>
i lexible w/o lug coriductor section	min	mm²	1.5
			35
Florible of the conductor section	max	mm²	33
Flexible c/w lug conductor section	min	mm²	1 5
	min	mm²	1.5
Devices townsized proceedings according to 150/FN 00500	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front



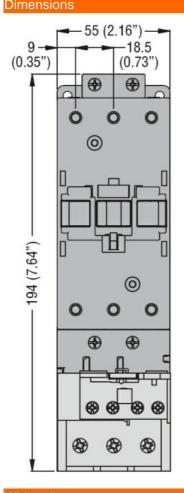
**ENERGY AND AUTOMATION** 

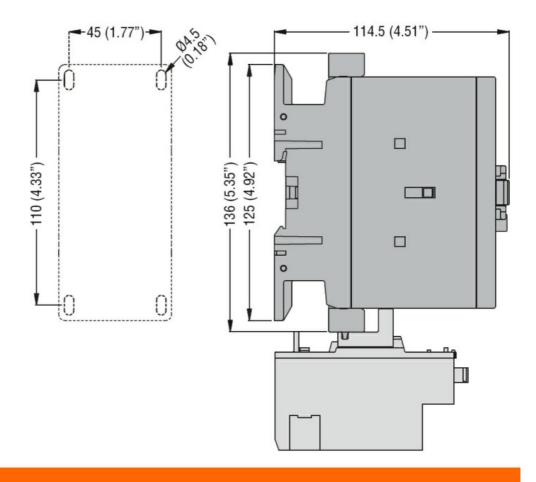
NA				
Mechanical features				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 6	0Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	0.0
		min	%Us	80
	drop-out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
AC average coil consu	Imption at 20°C	тах	7000	- 00
	of 60Hz coil powered at 60Hz			
	5. 55. 12 55. p. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	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				
	in AC			
	Closing NO			
		min	ms	12
	0 : NO	max	ms	28
	Opening NO		<b></b> .	0
		min	ms ms	8 22
	in DC	max	ms	
	Closing NO			
	Closing NO	min	ms	40
		max	ms	85
	Opening NO	max	5	
	- F9	min	ms	20
		max	ms	55
UL technical data				
General USE				
	Contactor			
	Contactor	AC current	Α	115



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		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	tion			
Pollution degree				3
Dimoneione				

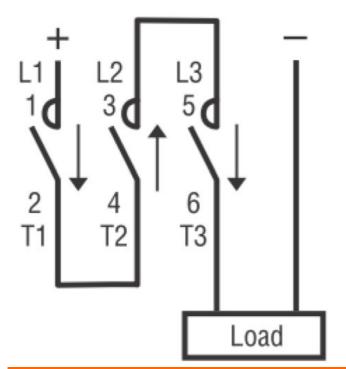


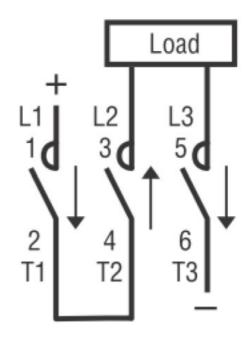


Wiring diagrams



**ENERGY AND AUTOMATION** 





## 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