



Product designation				Power contactor
Product type designation	ition			BFD65
Contact characteristic	OS			
Number of poles			Nr.	3
Rated insulation volta	age Ui IEC/EN		V	1000
Rated impulse withst	and voltage Uimp		kV	8
Operational frequence	у			
		min	Hz	25
		max	Hz	400
IEC Conventional fre	e air thermal current Ith		Α	115
IEC max current le in	max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
		400V	Α	100
		600V	Α	75
		800V	Α	45
		1000V	Α	35
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)			
	,	Ith	W	7.9
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	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			
	s.e s,ag eeaastol oostoli	min	mm²	1.5
		max	mm²	35
Power terminal prote	ction according to IEC/EN 60529	max		IP20 front
Mechanical features	0.10.1. 4000rding to 120/214 00020			20 110111
viechanical leatures				

Operating position



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		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1240
Conductor section				
A	WG/kcmil conductor section			
		max		2
Operations				4.5000000
Mechanical life			cycles	15000000
Safety related data	occording to EN/ISO 12490 1			
Performance level B 100 a	according to EN/ISO 13489-1	mechanical load	eveloc	15000000
EMC compatibility		mechanicai ioau	cycles	
AC coil operating				yes
Rated AC voltage at 50/6	0Hz		V	48
AC operating voltage	O1 12		v	+0
	f 50/60Hz coil powered at 50Hz			
0	pick-up			
	From Sp	min	%Us	80
		max	%Us	110
	drop-out			
	·	min	%Us	20
		max	%Us	55
0	f 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
A O	1, 1,0000	max	%Us	55
AC average coil consump				
0	f 50/60Hz coil powered at 50Hz	in much	١/٨	210
		in-rush	VA VA	210 15
_	f 50/60Hz coil powered at 60Hz	holding	VA	10
U	1 30/001 12 coil powered at our 12	in-rush	VA	195
		holding	VA	13
0	f 60Hz coil powered at 60Hz	Holding	٧/١	
Ü	1 001 12 0011 powerod di 001 12	in-rush	VA	210
		holding	VA	15
Dissipation at holding ≤20	0°C 50Hz	<u> </u>	W	5
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us contr	rol			
ir	n AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
_		max	ms	22
ir	n DC			

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0	osing	110

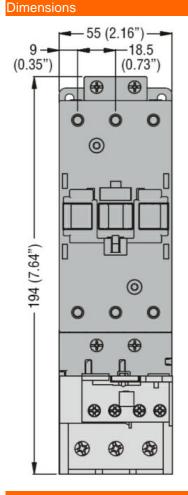
	min	ms	40
	max	ms	85
Opening NO			
	min	ms	20
	max	ms	55

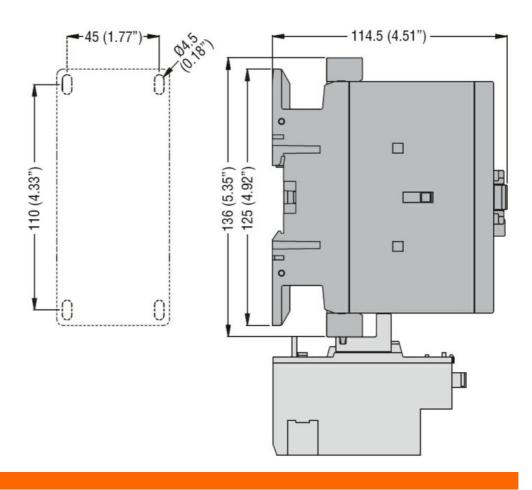
# UL technical data

#### General USE

General USE				
	Contactor			
		AC current	Α	115
	4 poles in series DC1			
		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 & Protection				

# Pollution degree

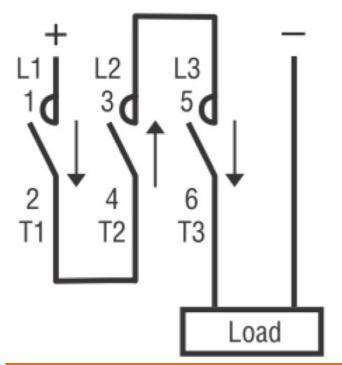


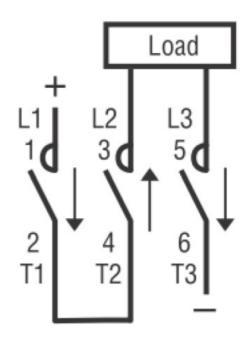


### Wiring diagrams



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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