



Product designation			Power contactor
Product type designation			BFD65
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 (≤55°C)	Α	130
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
120 max carrent to in 201 mar 2/11 = mile mar o perce in centee	400V	Α	100
	600V	A	75
	800V	A	45
	1000V	A	35
Short-time allowable current for 10s (IEC/EN60947-1)	10001	A	640
Protection fuse			040
1 Total Citori Tube	gG (IEC)	Α	125
	aM (IEC)	A	80
Resistance per pole (average value)	aivi (ILC)	mΩ	0.6
Power dissipation per pole (average value)		11122	0.0
rower dissipation per pole (average value)	Ith	W	7.9
Tightening torque for terminals	IUI	VV	1.9
riginering torque for terminals	min	Nm	4
	min	Nm	5
	max min	Ibin	2.95
		lbin	3.69
Tightening torque for coil terminal	max	IDIII	3.09
rightening torque for conterminal	min	Nm	0.8
	min max	Nm	0.6 1
	min	lbin Ibin	0.8 0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section		INI.	
AWG/Kcmil			
AWG/KCIIII	mov		2
Elevible w/e lug conductor coetien	max		
Flexible w/o lug conductor section	min	mm²	1.5
	min	mm²	1.5
Clavible also be acceptance and the control of the	max	mm²	35
Flexible c/w lug conductor section	m:-	mm²	1 E
	min	mm²	1.5
Dower terminal protection according to IEC/EN COCOO	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front

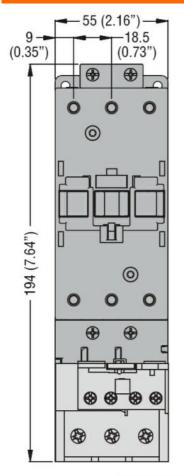


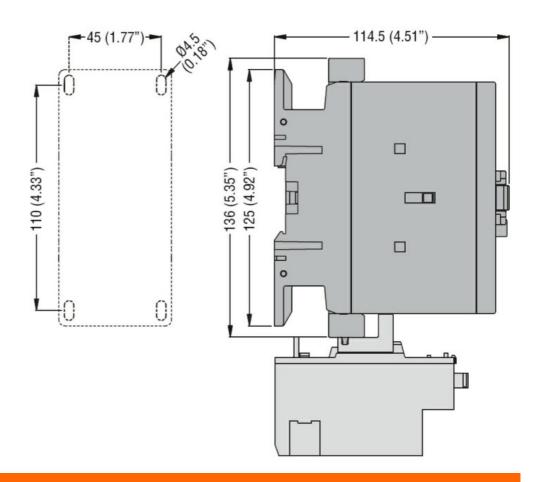
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Mechanical features				
Operating position				
91		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section	may		2
Operations		max		2
Mechanical life			cycles	15000000
Safety related data			.,	
	0d according to EN/ISO 13489-1			
	•	mechanical load	cycles	15000000
EMC compatibility			•	yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	·····	0/116	80
		min	%Us %Us	110
	drop-out	max	/008	110
	αιορ-οαι	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	THOX	7000	
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz			040
		in-rush	VA	210
	of 50/60Hz coil powered at 60Hz	holding	VA	15
	of 50/00112 con powered at 00112	in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	110101119	• • • • • • • • • • • • • • • • • • • •	
	5. 55 <u> </u>	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			40
		min	ms	12
	Opening NO	max	ms	28
	Opening NO	min	ms	8
		111111	1113	



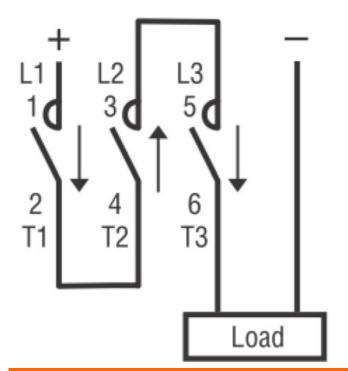
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
	4 poles in series DC1				
	•		600V	Α	100
Ambient conditions					
Temperature					
•	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	n				
Pollution degree					3
Dimensions					

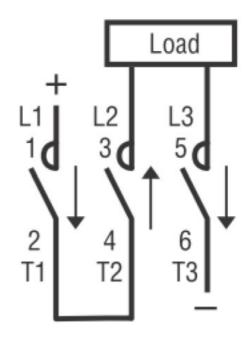






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Certifications and compliance

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