



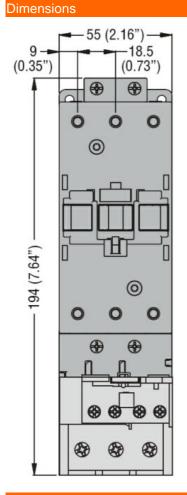
Product designation			Power contactor
Product type designation			BFD65
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		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			
·	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
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
riginaring to que 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
riginoring torque for confidential	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable	max	Nr.	2
Conductor section			
AWG/Kcmil			
/ W S/Norm	max		2
Flexible w/o lug conductor section	max		
Tionisia World conductor section	min	mm²	1.5
	max	mm²	35
Flexible c/w lug conductor section	IIIdA	111111	
i lexible of wildy colladetel section	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529	IIIdX	111111	IP20 front
Fower terminal protection according to IEC/EN 00029			IF ZU HUHL

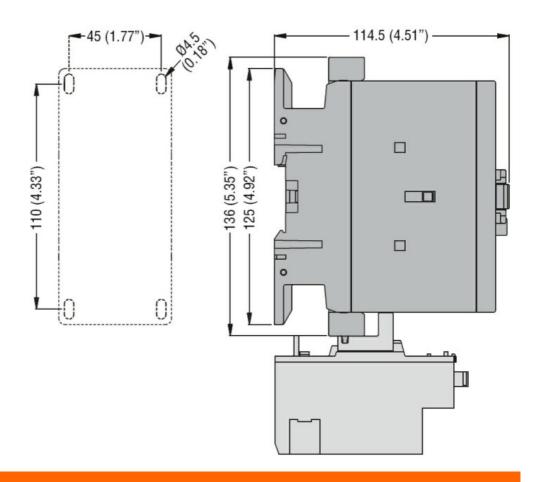


Mechanical features					
Operating position					
Operating position			normal		Vertical plan
			normal allowable		Vertical plan ±30°
			allowable		Screw / DIN rail
Fixing					35mm
Weight				g	1240
Conductor section				<u> </u>	· •
	AWG/kcmil conducto	or section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data					
Performance level B10	Od according to EN/ISO	O 13489-1			
			mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 60	0Hz			V	230
AC operating voltage					
	of 60Hz coil powered				
		pick-up			
			min	%Us	80
		duan	max	%Us	110
		drop-out	•	0/11-	20
			min	%Us	20
AC average coil consu	umption at 20°C		max	%Us	55
Ac average con consu	of 60Hz coil powered	1 at 60Hz			
	or our iz con powered	a at 001 12	in-rush	VA	210
			holding	VA	15
Dissipation at holding:	≤20°C 50Hz		Holding	W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times				<i>y</i>	
Average time for Us co	ontrol				
-	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			max	ms	22
	in DC				
		Closing NO	_		40
			min	ms	40
		On our line on NIO	max	ms	85
		Opening NO	•	<b></b>	20
			min	ms	20
III tochnical data			max	ms	55
UL technical data General USE					
General USE	Contactor				
	Contactor		AC current	Α	115
	4 poles in series DC	1	AC current	^	110
	- Poles III selles DC	<u> </u>			



		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

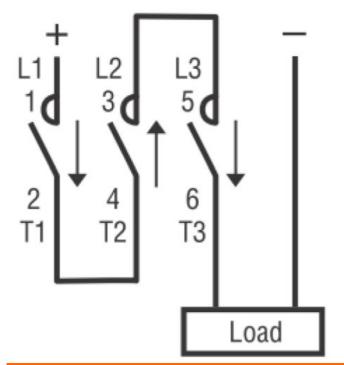


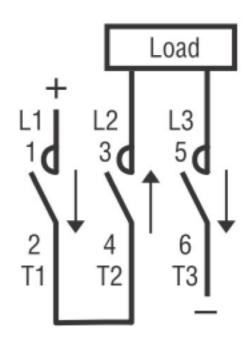


Wiring diagrams



**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