

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)	А	130
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	400V	А	100
	600V	А	75
	800V	А	45
	1000V	А	35
Short-time allowable current for 10s (IEC/EN60947-1)		А	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	А	80
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	Ith	W	7.9
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
	min	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	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			
-	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front

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Mechanical features					
Operating position					
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rail 35mm
Weight				g	1240
Conductor section					
	AWG/kcmil conductor	section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data				-	
	0d according to EN/ISO	13489-1			
	C C		mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					·
Rated AC voltage at 6	0Hz			V	220
AC operating voltage					
	of 60Hz coil powered	at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	Imption at 20°C				
	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					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
			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	А	115

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4 poles in series DC1

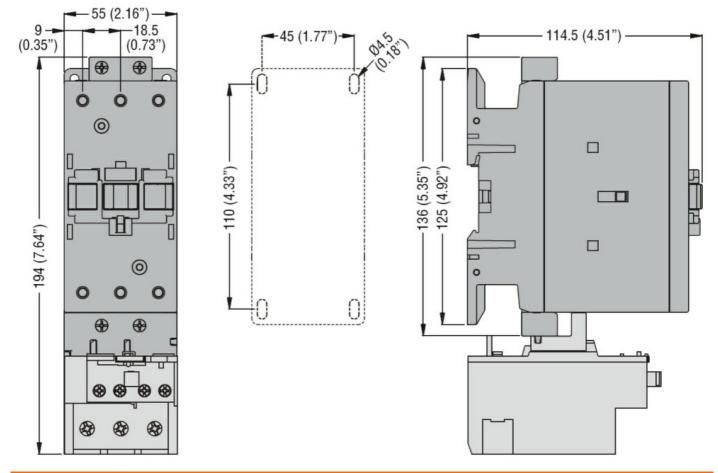


BFD6500A22060

THREE-POLE CONTACTOR, 35A/1000V DC1, AC COIL, 220VAC 60HZ

		600V	А	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 & Protec	tion			
Pollution degree				3

Dimensions

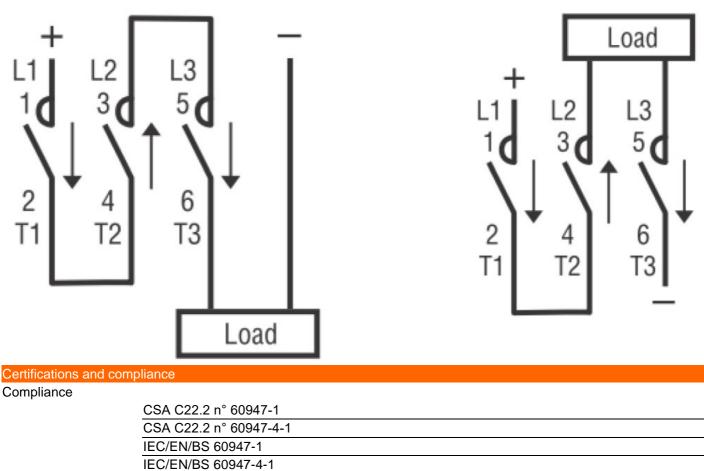


Wiring diagrams



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THREE-POLE CONTACTOR, 35A/1000V DC1, AC COIL, 220VAC 60HZ



UL 60947-1 UL 60947-4-1 ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching