

Product designation			Power contactor
Product type designation			BFD65
Contact characteristics			<u>^</u>
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		A	115
Operational current le			
	AC-1 (≤55°C)	A	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)		Α	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)			
	lth	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	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

BFD6500A57560 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Mechanical features

Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail 35mm
Weight				g	1240
Conductor section					
	AWG/kcmil cond	uctor section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data					
Performance level B10	d according to EN	I/ISO 13489-1			
	Ū		mechanical load	cycles	15000000
EMC compatibility				,	yes
AC coil operating					,
Rated AC voltage at 60)Hz			V	575
AC operating voltage					
	of 60Hz coil pow	ered at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
5	of 60Hz coil pow	ered 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	ontrol				
	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	max		
			min	ms	20
			max	ms	55
UL technical data				1113	
General USE					
	Contactor				
	CUIIIaCIUI		AC current	٨	115
	4	D04	AC current	A	115

4 poles in series DC1

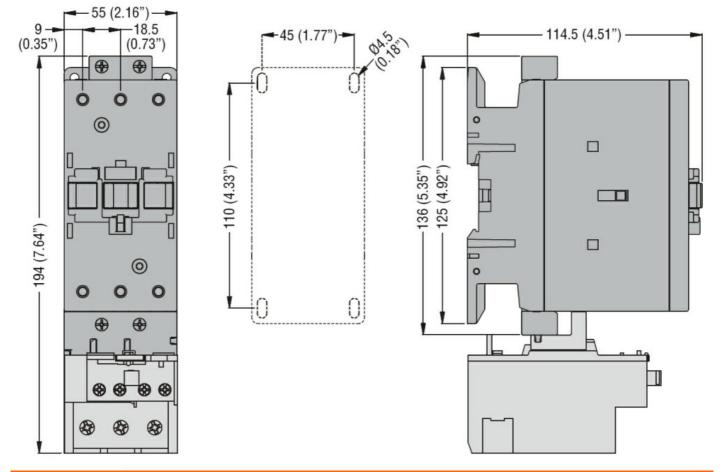


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THREE-POLE CONTACTOR, 35A/1000V DC1, AC COIL, 575VAC 60HZ

		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 & Protect	tion			
Pollution degree				3

Dimensions

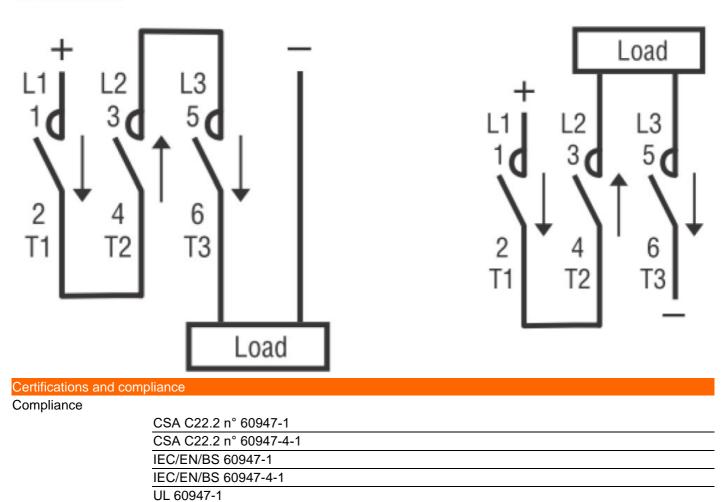


Wiring diagrams



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THREE-POLE CONTACTOR, 35A/1000V DC1, AC COIL, 575VAC 60HZ



ETIM classification

UL 60947-4-1

ETIM 8.0

EC002552 -Power contactor, DC switching