



Product designation			Power contactor
Product type designation			BFD80
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		А	115
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	400V	А	100
	600V	А	80
	800V	А	65
	1000V	Α	60
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)			
	lth	W	7.9
Tightening torque for terminals			
5 5 1	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	max	Nr.	2
Conductor section			2
AWG/Kcmil			
	max		2
Flexible w/o lug conductor section	IIIdX		۲
	min	mm²	1.5
	min		35
Elovible oly lug conductor conting	max	mm²	30
Flexible c/w lug conductor section			1 5
	min	mm²	1.5
	max	mm²	35
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position



BFD8000A400 THREE-POLE CONTACTOR, 60A/1000V DC1, AC COIL, 400VAC 50/60HZ

		normal allowable		Vertical plan ±30°
Fixing		anowabic		Screw / DIN rai 35mm
Weight			g	1240
Conductor section			9	1210
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1	mashariaallaad		4500000
EMC compatibility		mechanical load	cycles	15000000
EMC compatibility				yes
Rated AC voltage at 5	0/60Hz		V	400
AC operating voltage	0/00112		v	-1UU
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	From the	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	85
		max	%Us	110
	drop-out		0/11-	
		min	%Us	20
AC average coil consu	umption at 20°C	max	%Us	55
AC average coll const	of 50/60Hz coil powered at 50Hz			
	of 50/00112 coll powered at 30112	in-rush	VA	210
		holding	VA VA	15
	of 50/60Hz coil powered at 60Hz	Totaling	•/ (
		in-rush	VA	195
		holding	VA	13
	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	me	12
		max	ms ms	28
	Opening NO	IIIdX	1115	20
		min	ms	8
		max	ms	22
	in DC			

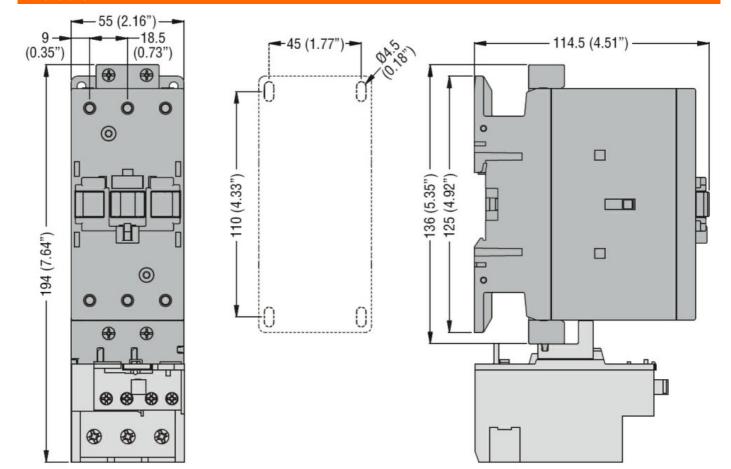
BFD8000A400



BFD8000A400 THREE-POLE CONTACTOR, 60A/1000V DC1, AC COIL, 400VAC 50/60HZ

	(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
	4 poles in series DC1				
			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 & Protecti	on				
Pollution degree					3

Dimensions



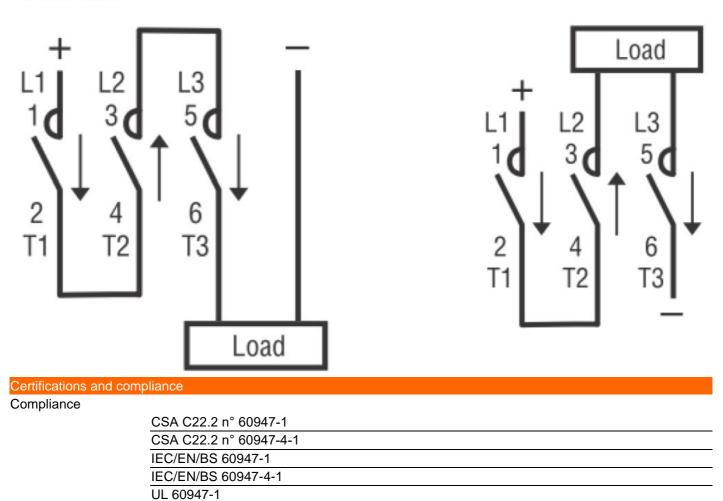
Wiring diagrams

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 BFD8000A400



BFD8000A400

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UL 60947-4-1

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching