

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		Α	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	80
	800V	А	65
	1000V	А	60
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	Α	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	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

BFD8000A23060 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



Machanical factures

Mechanical features					
Operating position					
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rail 35mm
Weight				g	1240
Conductor section				0	
	AWG/kcmil conduc	tor section			
			max		2
Operations					
Mechanical life				cycles	15000000
Safety related data				•	
Performance level B1	Dd according to EN/IS	SO 13489-1			
	Ū.		mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 6	0Hz			V	230
AC operating voltage					
	of 60Hz coil power	ed at 60Hz			
	, i	pick-up			
			min	%Us	80
			max	%Us	110
		drop-out		,	
			min	%Us	20
			max	%Us	55
AC average coil consu	Imption at 20°C		Пах	/000	
, to all old go con conce	of 60Hz coil power	ed at 60Hz			
			in-rush	VA	210
			holding	VA	15
Dissipation at holding	<20°C 50Hz		noiding	W	5
Max cycles frequency				VV	5
Mechanical operation				cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us co	ontrol				
Average lime for US C	in AC				
	IN AC				
		Closing NO			40
			min	ms	12
			max	ms	28
		Opening NO			0
			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
	4 poles in series D	C1			

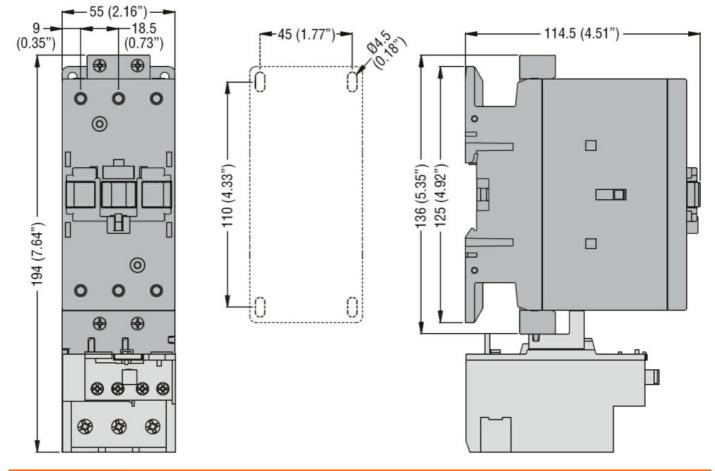


BFD8000A23060

THREE-POLE CONTACTOR, 60A/1000V DC1, AC COIL, 230VAC 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	ion			
Pollution degree				3

Dimensions

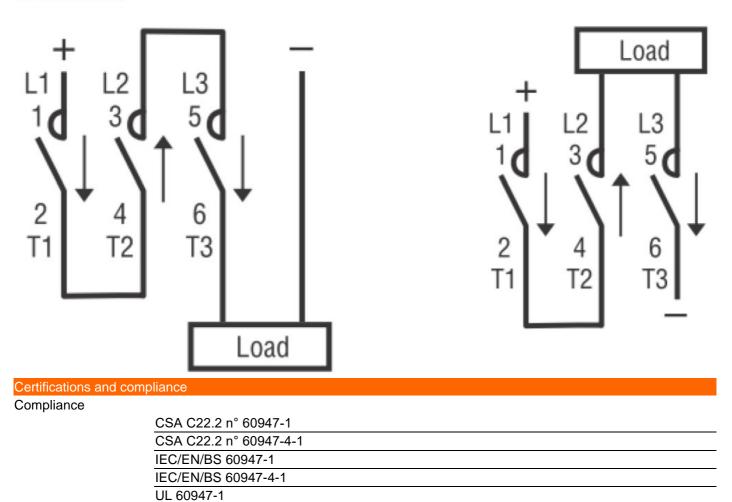


Wiring diagrams



BFD8000A23060

THREE-POLE CONTACTOR, 60A/1000V DC1, AC COIL, 230VAC 60HZ



UL 60947-4-1 ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching