

Product designation			Power contactor
Product type designation			BFD80
Contact characteristics			
Number of poles		Nr.	4
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 ≤ 1ms with 4 poles in series			
	400V	А	115
	600V	А	100
	800V	А	90
	1000V	А	80
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	Ibin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	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
Mechanical features			

Operating position



BFD80T4A024 FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 24VAC 50/60HZ

		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rai 35mm
Weight			g	1240
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1	mashariaal laad	avalaa	4500000
EMC compatibility		mechanical load	cycles	15000000
AC coil operating				yes
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage			v	
	of 50/60Hz coil powered at 50Hz			
	pick-up			
	r r	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
	drop out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	20 55
AC average coil consu	Imption at 20°C	тах	/000	00
re average con conce	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		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			ovoloo/h	2600
Mechanical operation Operating times			cycles/h	3000
Average time for Us co	ontrol			
Average une for 03 G	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
	Opening NO		-	
		min	ms	8
		max	ms	22
	in DC			

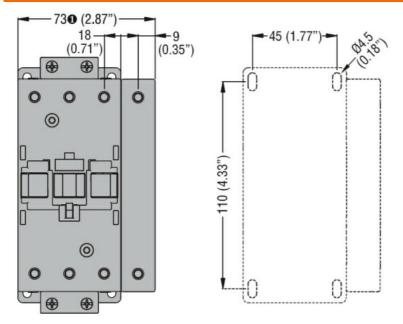
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding BFD80T4A024

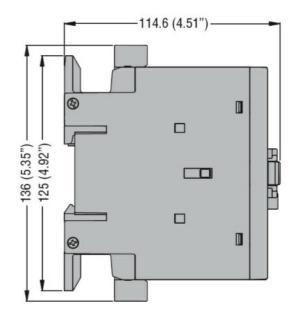


BFD80T4A024 FOUR-POLE CONTACTOR, 80A/1000V DC1, AC COIL, 24VAC 50/60HZ

	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	ion			
Pollution degree				3

Dimensions

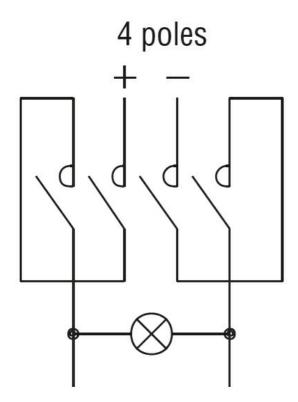




1 BF80T2 82mm/3.23"

Wiring diagrams





Certifications and cor	mpliance	
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	
Certificates		
	cULus	
ETIM classification		

ETIM 8.0

EC002552 -Power contactor, DC switching