



Product designation			Power contactor
Product type designation Contact characteristics			BFD80
Number of poles		nr.	4
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		100	
operational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	115
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	400V	Α	100
	600V	Α	100
	800V	Α	76
	1000V	Α	60
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	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	lbft	0.59
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
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			
	normal		vertical plan
	allowable		±30°

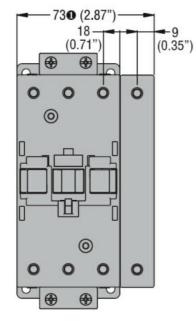


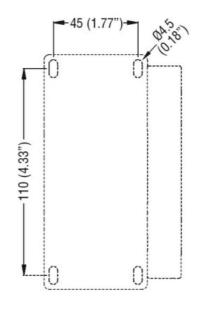
ENERGY AND AUTOMATION

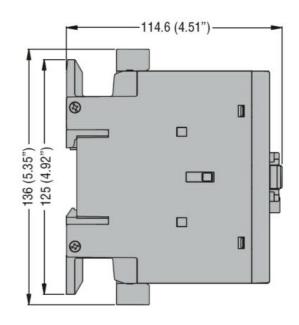
Fixing				Screw / DIN rail 35mm
Weight			g	1280
Operations				
Mechanical life			cycles	15000000
Safety related data	0 L			
Performance level B10	0d according to EN/ISO 13489-1			4500000
EMOCI III		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	0/60Hz 60Hz			
Rated AC voltage at 5	0/6002, 6002	min	V	20
		max	V	250
AC operating voltage		IIIdX	V	230
Ac operating voltage	of 50/60Hz coil powered at 50Hz pick-up			
	F F	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
	·	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out		0/11	
A.O. a manatina muselta ma	-1 00°O	max	%Us	≤70 Us min
AC operating voltage a				
	of 50/60Hz coil powered at 50Hz	in-rush	VA	35120
		holding	VA VA	1.53.7
	of 50/60Hz coil powered at 60Hz	Holding	VA	1.00.1
	01 00/00112 0011 powered at 00112	in-rush	VA	35120
		holding	VA	1.53.7
	of 60Hz coil powered at 60Hz	<u></u>		
	·	in-rush	VA	210
		holding	VA	15
Dissipation at holding	≤20°C 50Hz		W	12.5
DC coil operating				
DC rated control voltage	ge			
		min	V	20
DC operating voltage				
	pick-up			
		min	%Us	85 Us min
	- 	max	%Us	110 Us max
	drop-out		0/11-	∠70 Hai
Average est sensume	tion <20°C	max	%Us	≤70 Us min
Average coil consump	00011 ≥20 C	عامريس منا	14/	22 60
		in-rush	W	2368 1.21.9
Max cycles frequency		holding	VV	۱،۷۱.۶
Mechanical operation			cycles/h	1500
Operating times			5,5100/11	.000
Average time for Us co	ontrol			
5				



	in AC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
General USE	• • •				
	Contactor		40		446
	Amalaa in aaniaa DOA		AC current	Α	115
	4 poles in series DC1		600V	۸	100
Ambient conditions			6007	Α	100
Ambient conditions					
Temperature	Operating temperature				
	Operating temperature		min	°C	-40
				°C	-40 70
	Storage temperature		max	C	70
	Storage temperature		min	°C	-50
				°C	-50 80
Max altitude			max		3000
Resistance & Protectio	n			m	3000
	m <u> </u>				3
Pollution degree Dimensions					J
Dimensions					

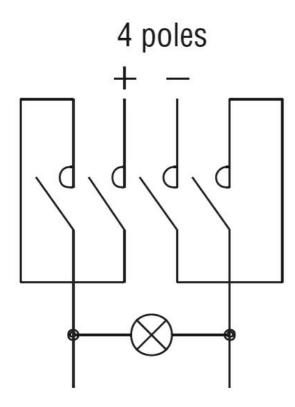






① BF80T2 82mm/3.23"





Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1.

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-4-1

Certificates

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