



Product designation				Power contactor
Product type designa				BFD80
Contact characteristic	S			<u>, </u>
Number of poles	111150/51		Nr.	4
Rated insulation volta	<u>-</u>		V	1000
Rated impulse withsta	•		kV	8
Operational frequency	/			
		min	Hz	25
		max	Hz	400
IEC Conventional free air thermal current Ith			Α	115
IEC max current le in	DC1 with L/R ≤ 1ms with 4 poles in series			
		400V	Α	115
		600V	Α	100
		800V	Α	90
		1000V	Α	80
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				
	1 (Ith	W	7.9
Tightening torque for	terminals			
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal	mux	10111	0.00
riginterning torque for	con terminal	min	Nm	0.8
		max	Nm	1
		min	lbin	0.59
			Ibin	0.74
May number of wires	simultaneously connectable	max	Nr.	2
	simultaneously connectable		INI.	
Conductor section	A1A/C/// amil			
	AWG/Kcmil			0
	<u></u>	max		2
	Flexible w/o lug conductor section		•	4 =
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				

Operating position



		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	1280
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Safety related data	40 Lancas Para ta EN/IOO 40400 4			
	10d according to EN/ISO 13489-1	mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at	50/60Hz, 60Hz			
		min	V	60
10		max	V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80 Us min
		min max	%Us	110 Us max
	drop-out	Παλ	/003	110 OS IIIAX
	diop out	max	%Us	≤70 Us min
	of 50/60Hz coil powered at 60Hz	тих	7000	
	pick-up			
	Press of	min	%Us	80 Us min
		max	%Us	110 Us max
	drop-out			
		max	%Us	≤70 Us min
AC average coil cons	sumption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	35120
		holding	VA	1.53.7
	of 50/60Hz coil powered at 60Hz	<u>.</u>		
		in-rush	VA	35120
	of COLLE poil powers diet COLLE	holding	VA	1.53.7
	of 60Hz coil powered at 60Hz	in-rush	VA	210
		holding	VA VA	15
Dissipation at holding	ı <20°C 50Hz	riolaling	W	12.5
DC coil operating	J =20 O 30112		VV	12.0
DC rated control volta	age			
,		min	V	60
		max	V	110
DC operating voltage				
. 5 5	pick-up			
	•	min	%Us	≤80 Us min
		max	%Us	≤110 Us max
	drop-out			
		max	%Us	≤70 Us min



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CONTACTOR 4 POLI, 80A/1000V DC1, BOBINA AC/DC, 60-110VAC/DC

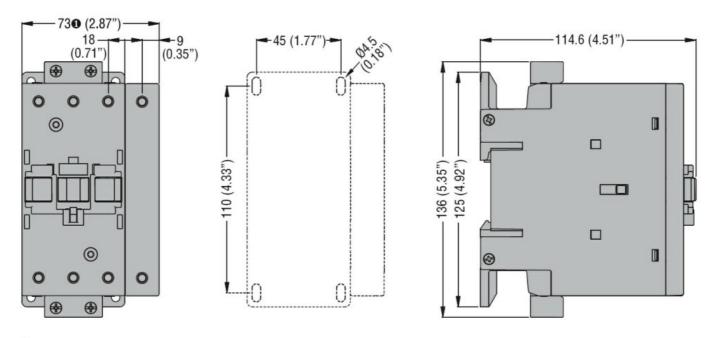
in-rush

W

		III-IUSII	VV	2300
		holding	W	1.21.9
			cycles/h	1500
ontrol				
	Closing NO			
	Glooning itte	min	ms	40
				85
	Opening NO	max	1113	00
	Opening NO	min	mc	20
				55
· DO		max	ms	33
in DC				
	Closing NO	_		
				40
		max	ms	85
	Opening NO			
		min	ms	20
		max	ms	55
Contactor				
Contactor		AC current	Α	115
		AC current	Α	115
Contactor 4 poles in series DC1				
		AC current	A A	115
4 poles in series DC1				
	3	600V	А	100
4 poles in series DC1	;	600V	A °C	100 -40
4 poles in series DC1 Operating temperature		600V	А	100
4 poles in series DC1	3	600V min max	°C °C	-40 70
4 poles in series DC1 Operating temperature	3	600V min max min	°C °C °C	-40 70 -50
4 poles in series DC1 Operating temperature)	600V min max	°C °C °C	-40 70 -50 80
4 poles in series DC1 Operating temperature Storage temperature	3	600V min max min	°C °C °C	-40 70 -50
4 poles in series DC1 Operating temperature	3	600V min max min	°C °C °C	-40 70 -50 80 3000
4 poles in series DC1 Operating temperature Storage temperature		600V min max min	°C °C °C	-40 70 -50 80
	in DC	in AC Closing NO Opening NO Closing NO Opening NO Opening NO	in AC Closing NO min max Opening NO min max in DC Closing NO min max Opening NO min max Opening NO min max	in AC Closing NO min ms max ms Opening NO min ms max ms in DC Closing NO min ms max ms Opening NO min ms max ms Opening NO min ms max ms Opening NO min ms max ms Opening NO min ms max ms

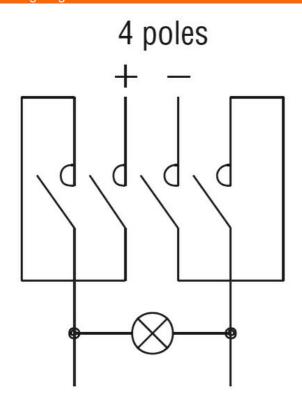


ENERGY AND AUTOMATION



BF80T2 82mm/3.23"

Wiring diagrams



Certifications and compliance

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





CONTACTOR 4 POLI, 80A/1000V DC1, BOBINA AC/DC, 60-110VAC/DC

Certificates

cULus

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching