



Product designation				Power contactor
Product type designa	ition			BFD80
Contact characteristic	CS CONTRACTOR CONTRACT			
Number of poles			Nr.	4
Rated insulation volta	age Ui IEC/EN		V	1000
Rated impulse withsta	and voltage Uimp		kV	8
Operational frequenc	у			
		min	Hz	25
		max	Hz	400
IEC Conventional free	e air thermal current Ith		Α	115
Operational current le	9			
·		AC-1 (≤55°C)	Α	0
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)	am (ILO)	mΩ	0.6
	r pole (average value)		11122	0.0
1 ower dissipation per	Pole (average value)	Ith	W	7.9
Tightening torque for	terminals	101	•••	7.0
rigitioning torquo for	tominals	min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for	coil terminal	max	10111	0.00
rigitioning torque for	oon terrima	min	Nm	0.8
		max	Nm	1
		min	lbin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	IIIdA	Nr.	2
Conductor section	Simultaneously connectable		INI.	
Conductor Section	AWG/Kcmil			
	AVVO/ROTIII	may		2
	Florible w/e lug conductor section	max		
	Flexible w/o lug conductor section	min	mm²	1.5
		min	mm²	1.5
	Flexible abulus conductor acction	max	mm²	35
	Flexible c/w lug conductor section			4.5
		min	mm²	1.5
		max	mm²	35
Power terminal prote			IP20 front	



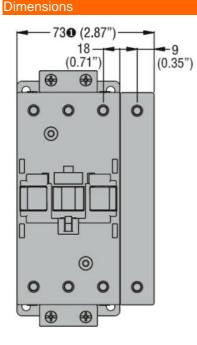
**ENERGY AND AUTOMATION** 

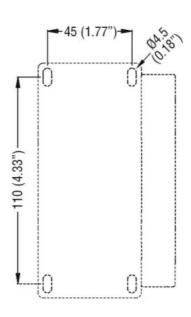
Mechanical features					
Operating position					
			normal		Vertical plan
			allowable		±30°
Fixing					Screw / DIN rail
					35mm
Weight Conductor section				g	1240
Conductor section	ANAC/komil oondust	tor agation			
	AWG/kcmil conduct	tor section	max		2
Operations			IIIdA		
Mechanical life				cycles	15000000
Safety related data				- J	
Performance level B10	Od according to EN/IS	SO 13489-1			
	J		mechanical load	cycles	15000000
EMC compatibility					yes
AC coil operating					
Rated AC voltage at 60	0Hz			V	575
C operating voltage					
	of 60Hz coil powere	ed at 60Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out		0/11	0.0
			min	%Us	20
VC average seil sensu	umption at 20°C		max	%Us	55
AC average coil consu	of 60Hz coil powere	od at 60∐ <del>-</del>			
	or ourse con powere	eu at 00HZ	in-rush	VA	210
			holding	VA	15
Dissipation at holding :	≤20°C 50Hz		ig	W	5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	12
			max	ms	28
		Opening NO			
			min	ms	8
	i DO		max	ms	22
	in DC	Closing NO			
		Closing NO	min	ms	40
			max	ms	85
		Opening NO	IIIdX	1113	55
		Opening 140	min	ms	20
			max	ms	55
JL technical data			THAX	15	
General USE	Contactor				
	Contactor		AC current	Α	115

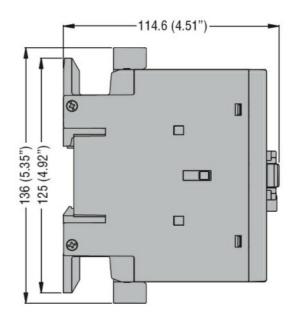


**ENERGY AND AUTOMATION** 

		600V	Α	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	tion			
Pollution degree				3
Dimoneione				



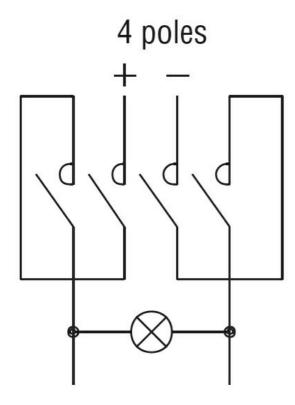




① BF80T2 82mm/3.23"

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

Certificates

cULus

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching