



Description of the control of the co			D
Product designation			Power contactor
Product type designation Contact characteristics			BFD80
		N In	4
Number of poles		Nr. V	4
Rated insulation voltage Ui IEC/EN			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
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	400V	Α	115
	600V	Α	100
	V008	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 pole (average value)			
, ,	Ith	W	7.9
Tightening torque for terminals	<u> </u>		
ggd	min	Nm	4
	max	Nm	5
	min	Ibin	2.95
	max	Ibin	3.69
Tightening torque for coil terminal	max	10111	0.00
righterning torque for our terminal	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
		Ibin	0.74
May sumbar of wires simultaneously connectable	max	Nr.	2
Max number of wires simultaneously connectable		INI.	
Conductor section			
AWG/Kcmil			0
FI 21 / 1 / 2	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
Power terminal protection according to IEC/EN 60529			IP20 front
Mechanical features			

Operating position



	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rai 35mm
Weight		g	1280
Conductor section		9	. = 0 0
AWG/kcmil conductor section			
	max		2
Operations			
Mechanical life		cycles	15000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
ŭ	mechanical load	cycles	15000000
EMC compatibility		-,	yes
AC coil operating			,
Rated AC voltage at 50/60Hz, 60Hz			
·	min	V	60
	max	V	110
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up			
·	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			
	max	%Us	≤70 Us min
AC average coil consumption 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			
	in-rush	VA	35120
	holding	VA	1.53.7
of 60Hz coil powered at 60Hz	_		
	in-rush	VA	210
	holding	VA	15
Dissipation at holding ≤20°C 50Hz		W	12.5
OC coil operating			
DC rated control voltage			
	min	V	60
	max	V	110
DC operating voltage			
pick-up		044.	.00.11
	min	%Us	≤80 Us min

Average coil consumption ≤20°C

drop-out

≤110 Us max

≤70 Us min

%Us

%Us

max

max



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FOUR-POLE CONTACTOR, 80A/1000V DC1, AC/DC COIL, 60-110VAC/DC

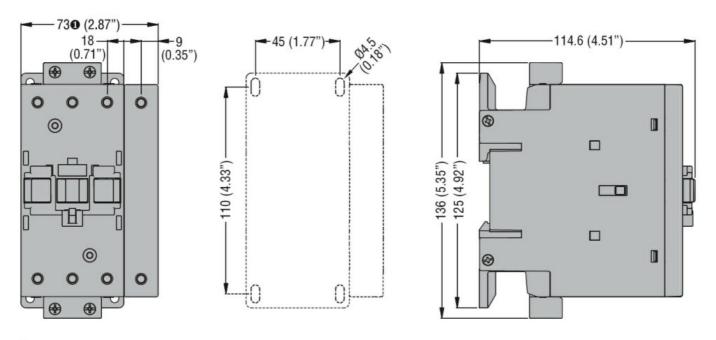
in-rush

W

			holding	W	1.21.9
Max cycles frequency			Ü		
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			0.0
			min	ms	20
	in DC		max	ms	55
	in DC	Closing NO			
		Closing NO	min	ms	40
			max	ms	85
		Opening NO	max	1110	00
		opolinig 110	min	ms	20
			max	ms	55
UL technical data					
General USE					
	Contactor				
			AC current	Α	115
	4 poles in series DC1				
			600V	Α	100
Ambient conditions					
Temperature					
	Operating temperature	!			
			min	°C	-40
			max	°C	70
	Storage temperature		مائمس	°C	EO.
			min	°C	-50 80
Max altitude			max		
Resistance & Protection	n			m	3000
Pollution degree	лі —				3
Dimensions					J
Diritoriorio					

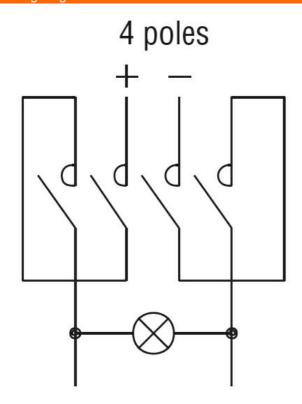


ENERGY AND AUTOMATION



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





FOUR-POLE CONTACTOR, 80A/1000V DC1, AC/DC COIL, 60-110VAC/DC

Certificates

cULus

ETIM classification

ETIM 8.0

EC002552 -Power contactor, DC switching