



Product designation Product type designation			Power contactor BFD80
Contact characteristics			DI DOO
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
Operational current le			
	AC-1 (≤40°C)	А	160
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	× 7		
	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	lbin	2.95
	max	lbin	3.69
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	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

Power terminal protection according to IEC/EN 60529



Mechanical features

Operating position

	normal allowable	Vertical plan ±30°
Fixing		Screw / DIN rail 35mm
Weight	g	1280
Conductor section		

AWG/kcmil conductor section

Operations cycles 1500000 Mechanical life cycles 1500000 Stady related data mechanical load cycles 1500000 EMC compatibility yes yes 1500000 EMC coll operating min V 100 Rated AC voltage at 50/60Hz, 60Hz min V 100 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %US 80 Us min drop-out max %US \$70 Us min 100 us max %US \$70 Us min of 50/60Hz coil powered at 60Hz pick-up min %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 50/60Hz coil powered at 60Hz in-rush VA 210 holding VA 1.53.7 of 50/60Hz coil powered at 60Hz in-rush VA			max		2
Safety related data Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 15000000 EMC compatibility yes AC coll operating yes AC coll operating yes Rated AC voltage at 50/60Hz, 60Hz min V 100 max V 250 AC operating voltage of 50/60Hz coil powered at 50Hz min %LS 80 Us min max %US 110 Us max drop-out max %US 270 Us min max %US 270 Us min of 50/60Hz coil powered at 60Hz max %US 270 Us min max %US 110 Us max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz max %US 270 Us min AC average coil consumption at 20°C 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 35120 holding VA 1.5 3.7 of 60Hz coil powered at 60Hz in-rush VA 250	Operations				
Performance level B10d according to EN/ISO 13489-1 mechanical load cycles 15000000 EMC compatibility yes AC coil operating yes Rated AC voltage at 50/60Hz, 60Hz min V 100 AC operating voltage of 50/60Hz coil powered at 50Hz min V 250 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 Us min drop-out max %Us s0 Us min %Us s70 Us min of 50/60Hz coil powered at 60Hz min %Us s0 Us min max drop-out max %Us s70 Us min s70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz min-rush VA 35120 holding VA 35120 holding VA 153.7 of 50/60Hz coil powered at 60Hz in-rush VA 35120 holding VA 15. Dissipation at holding \$20°C 50Hz W 12.5 VZ 250 VZ 250 VZ 250 VZ	Mechanical life			cycles	15000000
mechanical load cycles 1500000 EMC compariting yes yes Rated AC voltage at 50/60Hz, 60Hz min V 100 max V 250 AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min %Us 80 Us min Max %Us 500 110 Us max %Us 80 Us min max %Us 570 Us min %Us 570 Us min of 50/60Hz coil powered at 60Hz pick-up min %Us 570 Us min of 50/60Hz coil powered at 50Hz min %Us 570 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 35120 holding VA 153.7 of 50/60Hz coil powered at 60Hz in-rush VA 35120 holding VA 153.7 of 60Hz coil powered at 60Hz in-rush VA 35120 holding VA 153.7 of 60Hz coil powered at 60Hz in-rush VA 25120 holding VA 152.5 <td>Safety related data</td> <td></td> <td></td> <td></td> <td></td>	Safety related data				
EMC compatibility yes AC coil operating min V 100 Rated AC voltage at 50/60Hz, 60Hz min V 250 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 Us min AC operating voltage of 50/60Hz coil powered at 60Hz min %Us \$70 Us min of 50/60Hz coil powered at 60Hz pick-up min %Us 80 Us min drop-out max %Us \$70 Us min %Us 110 Us max drop-out max %Us \$70 Us min max %Us \$110 Us max drop-out max %Us \$70 Us min max %Us \$70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 35120 of 50/60Hz coil powered at 60Hz in-rush VA 35120 holding VA 153.7 of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15. Dissipation at holding ≤20°C 50Hz W </td <td>Performance level B10</td> <td>Dd according to EN/ISO 13489-1</td> <td></td> <td></td> <td></td>	Performance level B10	Dd according to EN/ISO 13489-1			
AC coll operating Rated AC voltage at 50/60Hz, 60Hz min V 100 AC operating voltage of 50/60Hz coil powered at 50Hz min %Us 80 Us min AC operating voltage min %Us 80 Us min max %Us 110 Us max drop-out max %Us 570 Us min of 50/60Hz coil powered at 60Hz pick-up min %Us 80 Us min of 50/60Hz coil powered at 60Hz pick-up min %Us 80 Us min max %Us 110 Us max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 35120 holding VA 153.7 of 50/60Hz coil powered at 60Hz in-rush VA 35120 holding VA 153.7 of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 153.7 Of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 152.5 Dissipation at holding ≤20°C 50Hz W 12.5 V <td></td> <td></td> <td>mechanical load</td> <td>cycles</td> <td>15000000</td>			mechanical load	cycles	15000000
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AC operating voltage of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up min %US & 80 Us min max %US ≤70 Us min min %US & 80 Us min max %US & 110 Us max drop-out Min %US & 80 Us min max %US ≤70 Us min 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 50/60Hz coil powered at 60Hz in-rush VA 210 holding VA 1.53.7 of 50/60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz VC coll operating DC rated control voltage pick-up min V 100 max V 250			min	V	100
of 50/60Hz coil powered at 50Hz pick-up min max %Us %Us 80 Us min 110 Us max drop-out max %Us \$70 Us min of 50/60Hz coil powered at 60Hz pick-up min max %Us 80 Us min Max %Us \$70 Us min %Us 80 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz %Us \$70 Us min AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 35120 holding VA 35120 holding VA 153.7 of 50/60Hz coil powered at 60Hz in-rush VA 35120 holding VA 153.7 of 60Hz coil powered at 60Hz in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 12.5 W 12.5 DC coil operating VI 100 max V 250 DC operating voltage pick-up min V 250 DC operating voltage min %Us ≤80 Us min			max	V	250
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drop-out max %Us 110 Us max AC average coil consumption at 20°C		pick-up			
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 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 W 12.5 DC coil operating In-rush VA 250 VA 250 DC operating voltage pick-up min V 250 VA 250			min	%Us	80 Us min
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 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 21.0 holding VA 15 Dissipation at holding ≤20°C 50Hz W 12.5 VC 12.5 DC coil operating In-rush VA 250 100 DC operating voltage min V 100 max V 250 DC operating voltage pick-up min %Us ≤80 Us min ≤80 Us min			max	%Us	110 Us max
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 DC rated control voltage DC rated control voltage pick-up in-rush VA 210 holding VA 15 UC operating voltage in-rush VA 210 holding VA 15 UC operating voltage in-rush VA 210 holding VA 15 UC operating voltage in-rush VA 210 holding VA 250 UC operating voltage in-rush VA 210 holding VA 250 UC operating voltage		drop-out			
of 50/60Hz coil powered at 50Hz in-rush holding VA 35120 holding vA 1.53.7 of 50/60Hz coil powered at 60Hz in-rush holding VA 35120 holding vA 1.53.7 in-rush holding VA 35120 holding vA 1.53.7 in-rush holding VA 1.53.7 of 60Hz coil powered at 60Hz in-rush holding VA 1.53.7 of 60Hz coil powered at 60Hz in-rush holding VA 210 holding Dissipation at holding ≤20°C 50Hz W 12.5 DC coil operating W 12.5 DC coil operating V 100 max DC operating voltage in-rush v 100 max pick-up min %Us ≤80 Us min max			max	%Us	≤70 Us min
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in-rush VA 210 holding VA 15 Dissipation at holding ≤20°C 50Hz W 12.5 DC coil operating DC rated control voltage min V 100 max V 250 DC operating voltage c V 250 DC operating voltage voltage V 250 DC operating voltage		of 60Hz coil powered at 60Hz	<u> </u>		
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Dissipation at holding ≤20°C 50Hz W 12.5 DC coil operating DC rated control voltage Min V 100 max V 250 DC operating voltage pick-up Min %Us ≤80 Us min max %Us ≤110 Us max			holding		
DC coil operating DC rated control voltage min V 100 max V 250 DC operating voltage pick-up min %Us ≤80 Us min max %Us ≤110 Us max	Dissipation at holding :	≤20°C 50Hz	0		
DC rated control voltage min V 100 max V 250 DC operating voltage pick-up min %Us ≤80 Us min max %Us ≤110 Us max					
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DC operating voltage pick-up 					
pick-up min %Us ≤80 Us min max %Us ≤110 Us max	DC operating voltage				
min %Us ≤80 Us min max %Us ≤110 Us max		pick-up			
max %Us ≤110 Us max		L	min	%Us	≤80 Us min
		drop-out	Ших	,	

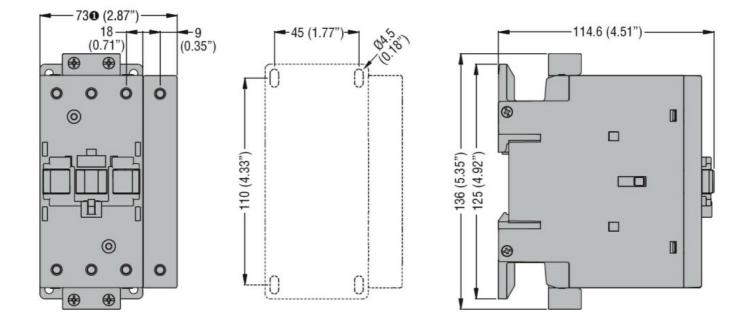


BFD80T4E230

FOUR-POLE CONTACTOR, 80A/1000V DC1, AC/DC COIL, 100-250VAC/DC

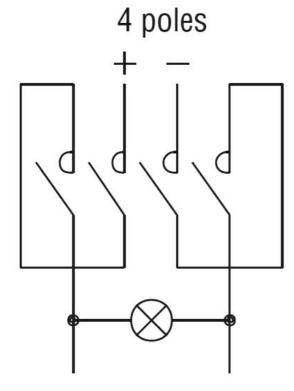
			max	%Us	≤70 Us min
Average coil consump	tion ≤20°C				
			in-rush	W	2368
			holding	W	1.21.9
Max cycles frequency					
Mechanical operation				cycles/h	1500
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	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				
			AC current	А	115
	4 poles in series DC1				
			600V	А	100
Ambient conditions					
Temperature					
	Operating temperatur	е			
			min	°C	-40
			max	°C	70
	Storage temperature				
			min	°C	-50
			max	°C	80
Max altitude				m	3000
Resistance & Protection	n				
Pollution degree					3
Dimensions					





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





ENERGY AND AUTOMATION

Certificates	
cULus	
ETIM classification	
	EC002552 -
ETIM 8.0	Power contactor,
	DC switching