



Product designation	Power contactor
Product type designation	BF80

Product type designation			DFOU
Contact characteristics			
Number of poles		Nr.	3
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		Α	115
Operational current le			
·	AC-1 (≤40°C)	Α	115
	AC-1 (≤55°C)	Α	95
	AC-1 (≤70°C)	Α	80
	AC-3 (≤440V ≤55°C)	Α	80
	AC-4 (400V)	Α	38
Rated operational power AC-3 (T≤55°C)	,		
· · · · · · · · · · · · · · · · · · ·	230V	kW	22
	400V	kW	45
	415V	kW	45
	440V	kW	45
	500V	kW	55
	690V	kW	55
	1000V	kW	37
Rated operational current AC-3 (T≤55°C)			
	230V	Α	80
	400V	Α	80
	415V	Α	80
	440V	Α	80
	500V	Α	78
	690V	Α	57
	1000V	Α	28
Rated operational power AC-1 (T≤40°C)			
	230V	kW	43
	400V	kW	76
	500V	kW	95
	690V	kW	120
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	Α	70
	48V	Α	60
	75V	Α	60
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<u>-</u>		
•	≤24V	Α	100



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	48V	Α	100
	75V	Α	100
	110V	A	80
150	220V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	100
	48V	Α	100
	75V	Α	100
	110V	Α	85
	220V	Α	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
120 max carrent to in 201 war 2/112 mile war 1 polec in conce	≤24V	Α	100
	48V	A	100
	75V	Α	100
	110V	Α	100
	220V	Α	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	40
	48V	Α	30
	75V	Α	30
	110V	A	3
150 D00 D05 W 1/D 1/5 W 0	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	60
	48V	Α	50
	75V	Α	50
	110V	Α	40
	220V	Α	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
120 max current to in 200-200 with 2/1 2 forms with 5 poics in series	<24)/	۸	80
	≤24V	A	
	48V	Α	70
	75V	Α	70
	110V	Α	60
	220V	Α	64
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	90
	48V	Α	90
	75V	Α	90
	110V	Α	75
	220V	A	80
Chart time allowable ourrent for 40s (IEO/ENCCC47.4)	ZZU V		
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	Α	125
	aM (IEC)	Α	80
Making capacity (RMS value)		Α	800
Breaking capacity at voltage			
	440V	Α	640
	500V	A	625
	690V	A	456
Decistance per pole (everge value)	090 v		
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
	lth	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			



electric	CONTACTEUR BF8000A, 3P (NO), 80A AC3, 400V 50/60HZ
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		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for o	coil terminal			
0 0 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	Пах	Nr.	2
Conductor section	Similation of the collability of		141.	
Conductor Section	AWG/Kcmil			
	AWG/RCIIII	may		2
	Florible w/s has sometimes attitude	max		2
	Flexible w/o lug conductor section	•.		4.5
		min	mm²	1.5
	-	max	mm²	35
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	35
Power terminal protect	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	1020
Operations			J	
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data			0,0.00	100000
	0d according to EN/ISO 13489-1			
i enomiance level bi	od according to E14/100 13403-1	rated load	cycles	1300000
			-	
EMO serve etilelite.		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating	20/0011		\ /	400
Rated AC voltage at 5	M/60H2			400
	10/001 12		V	
AC operating voltage			V	
AC operating voltage	of 50/60Hz coil powered at 50Hz		V	
AC operating voltage				
AC operating voltage	of 50/60Hz coil powered at 50Hz	min	%Us	80
AC operating voltage	of 50/60Hz coil powered at 50Hz	min max		
AC operating voltage	of 50/60Hz coil powered at 50Hz		%Us	80
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up		%Us	80
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out	max	%Us %Us	80 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	80 110 20
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	80 110 20 55
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	80 110 20 55 85 110
AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	80 110 20 55

of 50/60Hz coil powered at 50Hz



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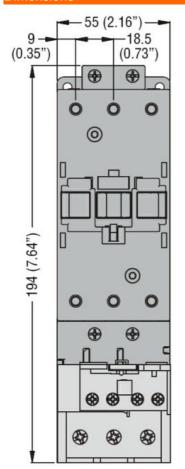
			in-rush	VA	210
			holding	VA VA	15
	of 50/60Hz coil powe	red at 60Hz	Holding	V/\	13
	01 00/001 12 0011 powe	100 01 001 12	in-rush	VA	195
			holding	VA	13
	of 60Hz coil powered	at 60Hz	Holding	V/ (	
	01 001 12 0011 po 1101 00	at 501.12	in-rush	VA	210
			holding	VA	15
Dissipation at holding	≤20°C 50Hz		<u></u>	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
			max	ms	22
	in DC				
		Closing NO			
			min	ms	40
			max	ms	85
		Opening NO			
			min	ms	20
			max	ms	55
UL technical data					
Rated operational volta	age AC (UL)			V	600
Full-load current (FLA)	) for three-phase AC mo	otor			
			at 480V	Α	77
			at 600V	Α	77
Yielded mechanical pe	erformance				
	for three-phase AC m	notor			
			200/208V	HP	25
			220/230V	HP	30
			460/480V	HP	60
			575/600V	HP	75
General USE					
	Contactor				
			AC current	Α	115
Short-circuit protection					
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	200
			Fuse class		J
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	200
			Fuse class		RK5
Ambient conditions					
Temperature					
	Operating temperatur	re		0.0	
			min	°C	-50

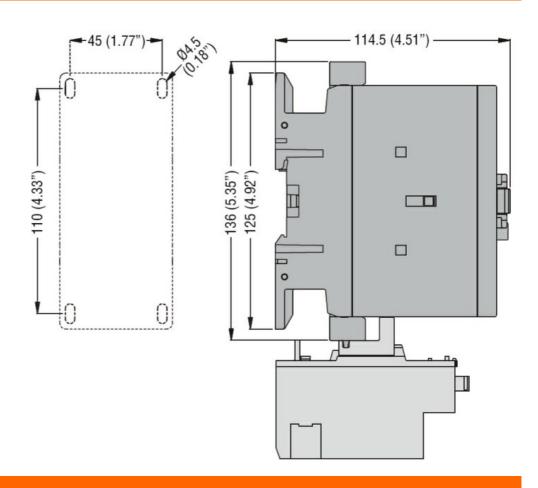


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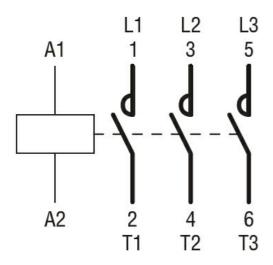
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

## Dimensions





## Wiring diagrams



## Certifications and compliance

Compliance





CONTACTEUR BF8000A, 3P (NO), 80A AC3, 400V 50/60HZ

	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	
	CCC
	cULus
ETIMA I INC. II	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching