



Product designation	Power contactor
Product type designation	BF80
Contact characteristics	

1 roddet type designation			DI 00
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		_	
	≤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
Object time allowable assessed for AOC (IFO/FNICOOAT A)	2201		
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)			
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			



EIECTIIC	CONTACTEUR BE8000A, 3P (NO), 80A AC3, 230V 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		Nr.	2
Conductor section	omination deligible and the second se			_
Conductor Scotlori	AWG/Kcmil			
	AWO/Remii	max		2
	Florible w/o lug conductor section	Παλ		
	Flexible w/o lug conductor section	min	mama <sup>2</sup>	1 E
		min	mm²	1.5
	<del></del>	max	mm²	35
	Flexible c/w lug conductor section	•	•	4 =
		min	mm²	1.5
		max	mm²	35
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Fixing				35mm
Weight			g	1020
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data				
	0d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		ratou roud	0,0.00	.00000
		mechanical load	cycles	15000000
EMC compatibility		mechanical load	cycles	15000000
EMC compatibility		mechanical load	cycles	15000000 yes
AC coil operating	50/60Hz	mechanical load	-	yes
AC coil operating Rated AC voltage at 5		mechanical load	cycles V	
AC coil operating		mechanical load	-	yes
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	mechanical load	-	yes
AC coil operating Rated AC voltage at 5			V	yes 230
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min	V %Us	yes 230 80
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up		V	yes 230
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	min max	V %Us %Us	yes 230 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min max min	V %Us %Us %Us	yes 230 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	min max	V %Us %Us	yes 230 80 110
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min	V %Us %Us %Us	yes 230 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min	V %Us %Us %Us	yes 230 80 110 20
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min	V %Us %Us %Us	yes 230 80 110 20 55
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max	V %Us %Us %Us %Us	yes 230 80 110 20 55
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max min	V  %Us %Us %Us %Us %Us	yes 230 80 110 20 55
AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up	min max min max min	V  %Us %Us %Us %Us %Us	yes 230 80 110 20 55

of 50/60Hz coil powered at 50Hz



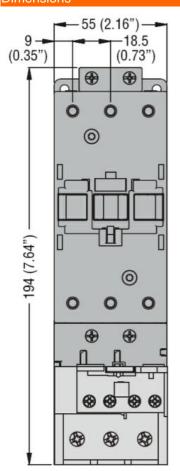
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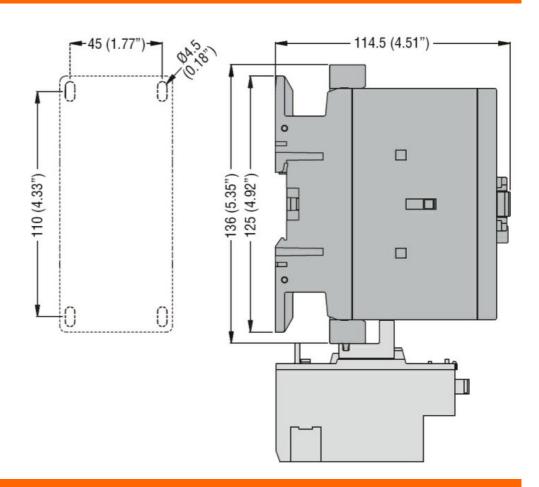
			١/٨	240
		in-rush	VA	210
	of FO/SOUT poil powered at SOUT	holding	VA	15
	of 50/60Hz coil powered at 60Hz	in-rush	VA	195
		holding	VA VA	13
	of 60Hz coil powered at 60Hz	Holding	VA	13
	or our iz con powered at our iz	in-rush	VA	210
		holding	VA	15
Dissipation at holding:	≤20°C 50Hz	Holamig	W	5
Max cycles frequency	-20 0 001.12		,,,	
Mechanical operation			cycles/h	3600
Operating times			.,	
Average time for Us co	ontrol			
· ·	in AC			
	Closing NO			
	Ç	min	ms	12
		max	ms	28
	Opening NO			
		min	ms	8
		max	ms	22
UL technical data				
Rated operational volta	age AC (UL)		V	600
	for three-phase AC motor			
	·	at 480V	Α	77
		at 600V	Α	77
Yielded mechanical pe	erformance			
·	for three-phase AC motor			
	·	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	fuse, 600V			
	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 temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
The elementari	ation described in this desument are subject to an datas are made	ifications at any time. The description	a tankninal a	



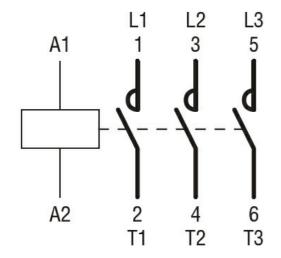
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#### **Dimensions**





## 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





CONTACTEUR BF8000A, 3P (NO), 80A AC3, 230V 50/60HZ

CCC cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching