



Product designation			Power contactor
Product type designation			BF80
Contact characteristics			Bioo
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ΚV	0
Operational frequency	min	∐-,	25
	min	Hz	25
IFC Conventional free air thermal surrent lth	max	Hz	400
IEC Conventional free air thermal current Ith		A	115
Operational current le			
	AC-1 (≤40°C)	A	115
	AC-1 (≤55°C)	A	95
	AC-1 (≤70°C)	A	80
	AC-3 (≤440V ≤55°C)	А	80
	AC-4 (400V)	A	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	А	80
	400V	А	80
	415V	А	80
	440V	А	80
	500V	А	78
	690V	А	57
	1000V	А	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	70
	48V	A	60
	48V 75V	A	60
	110V	A	8
	220V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2200	~	_
$L \cup \max \bigcup \bigcup$	-0.01		

≤24V

А

100



BF8000E110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC/DC COIL, 60...110VAC/DC

PERATING CUP	RRENT IE (	AC3) =	= 80A, AC/DC COIL,	
			60110VAC/DC	
	48V	А	100	
	75V	А	100	
	110\/	Δ	80	

	40 v	~	100
	75V	А	100
	110V	А	80
	220V	A	9
	2200	A	9
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	Α	100
	48V	Α	100
	75V	А	100
	110V	А	85
	220V	A	95
IEC may surrent lo in DC1 with $I/D < 1$ may with 4 notes in series	2201	Λ	55
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			(
	≤24V	A	100
	48V	Α	100
	75V	Α	100
	110V	А	100
	220V	А	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
The max current is in $DC5-DC5$ with $L/T = 15005$ with 1 poles in series	<0.4V	^	40
	≤24V	A	40
	48V	A	30
	75V	Α	30
	110V	Α	3
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-		
	<241/	۸	60
	≤24V	A	60
	48V	А	50
	75V	A	50
	110V	Α	40
	220V	А	5
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	80
	48V	A	70
	75V	A	70
	110V	А	60
	220V	Α	64
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
	≤24V	А	90
	48V	A	90
	40V 75V	A	90
	110V	A	75
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		Α	640
Protection fuse			
	gG (IEC)	А	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	800
		А	000
Breaking capacity at voltage			
	440V	A	640
	500V	А	625
	690V	А	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			
i onoi dissipation per pole (average value)	141-	۱۸/	7.0
	Ith	W	7.9
	AC-3	W	3.8
Tightening torque for terminals			



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ENERGY AND AUTOMATION				
		min	Nm	4
		max	Nm	5
		min	lbin	2.95
		max	lbin	3.69
Tightening torque for a	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	Пал	Nr.	2
			111.	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 protoc	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
тыпу				35mm
Weight			g	1060
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations		Пах		2
Mechanical life			ovoloo	15000000
			cycles	
Electrical life			cycles	1300000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility	_0			yes
AC coil operating				,
Rated AC voltage at 5		*·	17	60
		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	,	
	ulop-out	mov	%Us	≤70 Us min
		max	70US	
	of 50/60Hz coil powered at 60Hz			
	of 50/60Hz coil powered at 60Hz pick-up			
	•	min	%Us	80 Us min

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110 Us max

%Us

max



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drop-out

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
Dissipation at holding ≤20°C 50Hz		W	12.5
DC coil operating			1
DC rated control voltage			
De lated control voltage	min	V	60
	max	v	110
DC appreting voltage	Шал	v	110
DC operating voltage			
pick-up		0/110	
	min	%Us	80 Us min
	max	%Us	110 Us max
drop-out			
	max	%Us	≤70 Us min
Average coil consumption ≤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 control			
in AC			
Closing NO			
	min	ms	12
	max	ms	28
Opening NO			
	min	ms	8
	max	ms	22
in DC			
Closing NO			
Ğ	min	ms	40
	max	ms	85
Opening NO		-	
	min	ms	20
	max	ms	55
UL technical data	max	inte	
Full-load current (FLA) for three-phase AC motor			
	at 480V	А	77
	at 600V	A	77
Yielded mechanical performance	41 000 1		
for three-phase AC motor			
ior timee-phase AC motor	200/208V	HP	25
	220/230V 460/480V	HP HP	30 60
			60 75
	575/600V	HP	75
General USE Contactor			

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

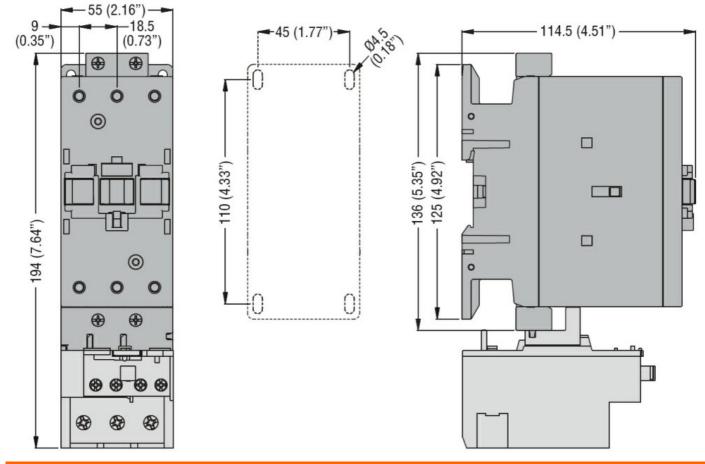
ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC/DC COIL, 60...110VAC/DC

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AC current А 115 Short-circuit protection fuse, 600V High fault Short circuit current 100 kΑ Fuse rating А 200 Fuse class J Standard fault Short circuit current kΑ 10 Fuse rating 200 А Fuse class RK5 Ambient conditions Temperature Operating temperature °C -40 min °C max 70 Storage temperature °C -50 min °C 80 max Max altitude 3000 m Resistance & Protection Pollution degree 3

## Dimensions

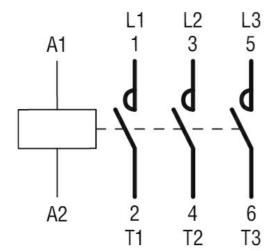


## Wiring diagrams

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**BF8000E110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC/DC COIL, 60...110VAC/DC



## 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	
	CCC
	cULus
ETIM classification	

**ETIM 8.0** 

EC000066 -Power contactor, AC switching

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