# BF8000A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 110VAC



Product designation		Power contactor
Product type designation		BF80
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	А	115
Operational current le		
AC-1 (≤40°C)	А	115
AC-1 (≤55°C)	А	95
AC-1 (≤55°C) with 16mm² wire and fork end	lugA	80
AC-1 (≤70°C)	А	80
AC-3 (≤440V ≤55°C)	А	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	А	80
400V	А	80
415V	А	80
440V	А	80
500V	А	78
690V	А	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 $L/R \le 1$ ms with 1 poles in series		
≤24V	Α	70
48V	А	60
75V	А	60
110V	А	8
220V	Α	_

## IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series

BF8000A110



THREE-POLE CONTACTOR, I 110VAC

BF8000A110	)
EC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ	<u>,</u>
110VA0	2

	≤24V	А	100
	48V	A	100
	75V	А	100
	110V	А	80
	220V	А	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	85
	220V	А	95
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	100
	48V	А	100
	75V	А	100
	110V	А	100
	220V	А	115
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	40
	48V	А	30
	75V	А	30
	110V	А	3
	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	60
	48V	А	50
	75V	А	50
	110V	А	40
	220V	Α	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	А	80
	48V	А	70
	75V	А	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
	75V	A	90
	110V	A	75
	220V	A	80
Short-time allowable current for 10s (IEC/EN60947-1)		A	640
Protection fuse			405
	gG (IEC)	A	125
	aM (IEC)	A	80
Making capacity (RMS value)		A	800
Breaking capacity at voltage	4.4017	•	640
	440V	A	640
	500V	A	625
	690V	A	456
Resistance per pole (average value)		mΩ	0.6
Power dissipation per pole (average value)			7.0
	lth	W	7.9
	AC-3	W	3.8

BF8000A110



Tightening torque for te	erminals			
		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for c	oil terminal			
		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				_
	AWG/Kcmil			
	AWG/Remin	max		2
	Elevible w/e lug conductor costion	Παλ		2
	Flexible w/o lug conductor section	min	ma ma 2	1 5
		min	mm²	1.5
		max	mm²	35
	Flexible c/w lug conductor section		2	
		min	mm²	1.5
		max	mm²	35
	tion according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	1020
Conductor section				
	AWG/kcmil conductor section			
		max		2
Operations				
Mechanical life			cycles	15000000
Electrical life			cycles	1300000
Safety related data			,	
	Dd according to EN/ISO 13489-1			
		rated load	cycles	1300000
		mechanical load	cycles	15000000
Mirror contate accordin	ng to IEC/EN 609474-4-1	moonumouriodu	0,0100	
EMC compatibility				yes
AC coil operating				yes
			11	110
Rated AC voltage at 50	U/0UTIZ		V	110
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	-	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
	plot up	min	%Us	85
		111111	/003	00

BF8000A110

BF8000A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 110VAC

		max	%Us	110
	drop-out			
		min	%Us	40
		max	%Us	55
AC average coil consu				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz	in-rush	\/A	105
		holding	VA VA	195 13
	of 60Hz coil powered at 60Hz	noiuing	VA	15
		in-rush	VA	210
		holding	VA	15
Dissipation at holding	<20°C 50Hz	libiding	W	5
Max cycles frequency				U U U U U U U U U U U U U U U U U U U
Mechanical operation			cycles/h	3600
Operating times			.,	
Average time for Us co	ontrol			
0	in AC			
	Closing NO			
	<u> </u>	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			20
		min	ms	20
UL technical data		max	ms	55
	) for three-phase AC motor			
		at 480V	А	77
		at 400V at 600V	A	77
Yielded mechanical pe	erformance	at 000 V		
	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	А	115
Short-circuit protection				
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	200
	- · · · ·	Fuse class		J
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	A	200

BF8000A110

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



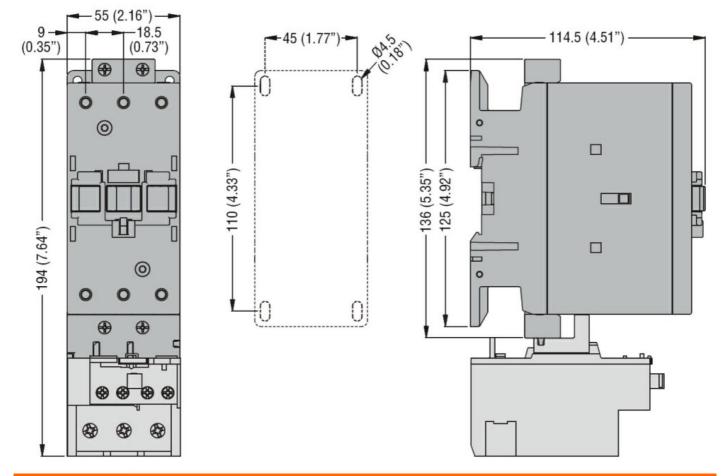
THREE-POL

JLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60F	IZ,
110V/	٩C

**BF8000A110** 

		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 & Protec	tion			
Pollution degree				3

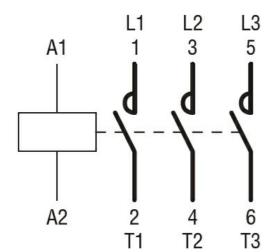
## Dimensions



### Wiring diagrams



**BF8000A110** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 80A, AC COIL 50/60HZ, 110VAC



### 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