BF3800A110



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC



		~~~	
Product designation			Power contactor
Product type designation			BF38
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			•
opolaring including	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	56
Operating current			
	Operational current AC1 (≤40°C)	А	56
	Operational current AC3 (≤440V ≤55°C)	A	38
	Operational current AC4 (400V)	A	15.5
Rated operational power AC1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	400V 500V	kW	45
	690V	kW	62
Rated operational power AC3 (T≤55°C)	0301	IX V V	02
	230V	kW	11
	400V	kW	18.5
	400V 415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	20
Short-time allowable current for 10s (IEC/EN		A	320
Protection fuse	00947-1)	A	320
FIOLECIIONIUSE		٨	60
	gG (IEC) aM (IEC)	A	63 40
Making appacity (DMS value)	alvi (IEC)	A A	380
Making capacity (RMS value)		A	380
Breaking capacity at voltage		•	004
	Breaking capacity 440V	A	304
	Breaking capacity 500V	A	240
	Breaking capacity 690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			•
	Power dissipation pole (average value) Ith	W	6
	AC3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbft	1.8
	max	lbft	2.2

## Tightening torque for coil terminal



ENERGY AND AUTOMATION	THREE-POLE CONTACTOR, IEC OPERATING CURREN	BF3800A110 AC COIL 50/60HZ, 110VAC		
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		6
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
	· -	min	mm²	1
		max	mm²	10

Power terminal protection according to IEC/EN 60529 Auxiliary contact characteristics Operational current AC1 (≤40°C) Operating current DC13

Ambient conditions		

Temperature

Operating temperature

Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		±30°
Mounting			Screw / DIN rail
			35mm
Weight		g	0.423
Operations			
Mechanical life		Cycles	2000000
Electrical life		Cycles	1400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	Cicli	1400000
	mechanical load	Cicli	2000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			

AC operating voltage

of 50/60Hz coil powered at 50Hz

pick-up

%Us min 0.8

BF3800A110

IP20 when wired

Screw / DIN rail

А

А

110V

56

35mm

BF3800A110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC



		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up	_		
		min	%Us	0.8
		max	%Us	1.1
	drop-out		0/11-	0.0
		min	%Us	0.2
AC opporation walter		max	%Us	0.55
AC operating voltage	of E0/60Hz and powered at E011-			
	of 50/60Hz coil powered at 50Hz	in ruch	١/٨	75
		in-rush holding	VA VA	75 9
	of 50/60Hz coil powered at 60Hz	noiding	٧A	9
	or so/ouriz con powered at ouriz	in-rush	VA	70
		holding	VA VA	6.5
	of 60Hz coil powered at 60Hz	Holding	v/ (	0.0
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
UL technical data				
Full-load current (FLA)	for three-phase AC motor			40
		at 480V	A	40
		at 600V	А	32
Yielded mechanical pe				
	erformance for single-phase AC motor			2
		at 110/120V	hp	3
	for single-phase AC motor			3 7.5
		at 110/120V at 230V	hp hp	7.5
	for single-phase AC motor	at 110/120V at 230V at 200/208V	hp hp hp	7.5 10
	for single-phase AC motor	at 110/120V at 230V at 200/208V at 220/230V	hp hp hp hp	7.5 10 15
	for single-phase AC motor	at 110/120V at 230V at 200/208V	hp hp hp	7.5 10

General USE

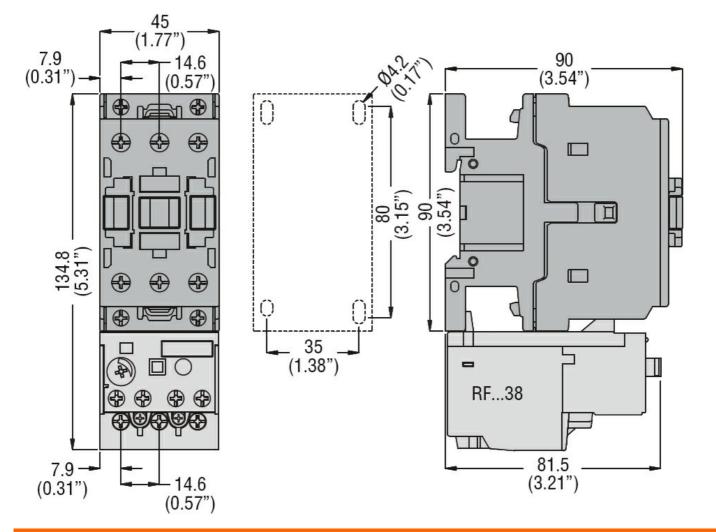
BF3800A110



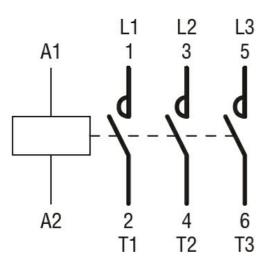
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC

Contactor





## Wiring diagrams



## Certifications and compliance Certifications

BF3800A110



BF3800A110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 110VAC

	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classification	

EC000066 - Power contactor, AC switching

BF3800A110