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			2.00
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm ² wire and fork end		60
	AC-1 (≤55°C)	Ă	45
	AC-1 (≤55°C) with 16mm ² wire and fork end		48
	AC-1 (≤70°C)	Ă	40
	AC-1 (≤70°C) with 16mm² wire and fork end		42
	`´ AC-3 (≤440V ≤55°C)	Ă	38
	AC-4 (400V)	А	15.5
Rated operational power AC-3 (T≤55°C)			
,	230V	kW	11
	400V	kW	18.5
	415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms wit	h 1 poles in series		
	≤24V	А	35
	48V	А	30
	75V	А	23
	110V	А	8
	220V	А	-
IEC max current le in DC1 with L/R ≤ 1ms wit	h 2 poles in series		
	≤24V	А	36
	48V	А	34
	75V	А	29
	110V	А	32
	220V	А	4
IEC max current le in DC1 with L/R ≤ 1ms wit	h 3 poles in series		
	≤24V	А	36

BF3800A110



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	48V	А	34
	75V	А	33
	110V	А	34
	220V	А	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	36
	48V	A	34
	48V 75V	A	33
	110V	A	34
	220V	A	38
IEC may autrent to in DC2 DC5 with L/P < 15mg with 1 polog in agrice	2200	A	30
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<0.4) (٨	0.4
	≤24V	A	24
	48V	A	20
	75V	A	17
	110V	А	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	28
	48V	А	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	32
	48V	А	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		20
	≤24V	А	32
	48V	A	28
	48V 75V	A	28
		A	
	110V		23
	220V	<u>A</u>	15
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse		_	
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	3 1.8
		Ibin	2.2
	max		۷.۷

Tightening torque for coil terminal



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

AWG/Kcmil max 6 Flexible w/o lug conductor section min mm² 2.5 max mm² 16 Flexible c/w lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 Flexible with insulated spade lug conductor section min mm² 1 Power terminal protection according to IEC/EN 60529 IP20 when properly wired IP20 when properly wired Mechanical features U Vertical plan ±30° Operating position g 423 Screw / DIN rail String g 423 Screw / DIN rail Mechanical features g 423 Screw / DIN rail String g 423 Screw / DIN rail String Weight g 423 Screw / DIN rail String Screw / DiN rail String String String String Mechanical life cycles 1400000 String String String String Strin						
mink Nm 1 mink bin 0.8 max nmax bin 0.74 Max number of wires simultaneously connectable Nr. 2 Conductor section max min mm ² 1 Flexible w/o lug conductor section min mm ² 2.5 mink mm ² 16 Flexible c/w lug conductor section min mm ² 1 mink mm ² 10 1 Power terminal protection according to IEC/EN 60529 min mm ² 1 Power terminal protection according to IEC/EN 60529 roperly wired mex Mechanical features yoperly wired yoperly wired Conductor section normal Yortical plan 30 Fixing Screw / DIN rail 35mm 35mm Weight g 4.23 20 Conductor section mechanical lide yoles 1400000 Performance level B104 according to EN/ISO 13489-1 yes 20000000 Mirror contats according to EN/ISO 13489-1 yes 20000000 Mirror contats according to EN/ISO 13489-1 yes 20000000 Mirror contats according to EN/ISO 13489-1 yes 20000000 <			min	Nm	0.8	
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Pking 35mm Weight g 423 Conductor section AWG/kcmil conductor section max 6 Operations 6 0 <td< td=""><td></td><td></td><td>allowable</td><td></td><td></td></td<>			allowable			
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of 50/60Hz coil powered at 50Hz pick-up drop-out <u>min</u> %Us 80 max %Us 110 <u>min</u> %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up <u>min</u> %Us 85 max %Us 110 drop-out	AC operating voltage					
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 min %Us 85 max %Us 110 drop-out		of 50/60Hz coil powered at 50Hz				
min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz state state pick-up min %Us 85 max %Us 110 drop-out min %Us 85 max %Us 110 drop-out min %Us 110						
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drop-out min %Us 20 max %Us 55 of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out						
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of 50/60Hz coil powered at 60Hz pick-up min %Us 85 max %Us 110 drop-out			min	%Us	20	
pick-up min %Us 85 max %Us 110 drop-out			max	%Us	55	
pick-up min %Us 85 max %Us 110 drop-out		of 50/60Hz coil powered at 60Hz				
max %Us 110 drop-out						
drop-out			min	%Us	85	
·			max	%Us	110	
min %Us 20		drop-out				
			min	%Us	20	

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110VAC

		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	in ruch	١/٨	75
		in-rush holding	VA VA	75 9
Dissipation at holding	<20°C 50H-	noiding	W	2.5
Max cycles frequency			VV	2.0
Mechanical operation			cycles/h	3600
Operating times			Cycles/II	3000
Average time for Us co	ontrol			
riverage and for de de	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	·	min	ms	5
		max	ms	15
	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
UL technical data		max	ms	17
	for three-phase AC motor			
	tor three-phase AC motor	at 480V	А	40
		at 600V	A	32
Yielded mechanical pe	rformance			02
· · · · · · · · · · · · · · · · · · ·	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE	_			
	Contactor			
Object also it is the	(upp. 000)/	AC current	A	55
Short-circuit protection				
	High fault	Short circuit current	L۸	100
		Short circuit current Fuse rating	kA A	100 100
		Fuse class	А	J
	Standard fault	1 030 01033		5
		Short circuit current	kA	5
		Fuse rating	A	150
Ambient conditions				

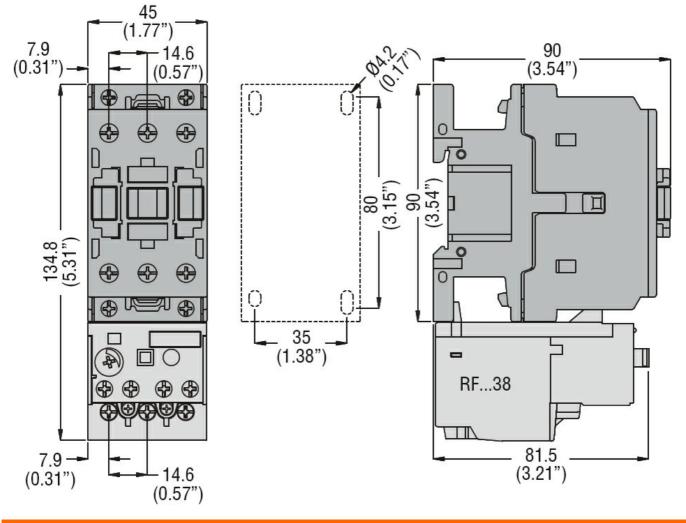
BF3800A110



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

Temperature

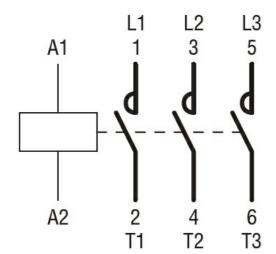
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



Wiring diagrams



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



Certifications and compliance

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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
	EAC
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching