BF4000A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 230VAC



Product designation			Power contactor
Product type designation			BF40
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		А	70
Operating current			
	Operational current AC1 (≤40°C)	А	70
	Operational current AC3 (≤440V ≤55°C)	А	40
	Operational current AC4 (400V)	А	24
Rated operational power AC1 (T≤40°C)			
	230V	kW	26
	400V	kW	46
	500V	kW	58
	690V	kW	79
Rated operational power AC3A (T≤55°C)			
	Rated operational power AC3 (T≤55°C) 230	VkW	11
	Rated operational power AC3 (T≤55°C) 400	VkW	18.5
	Rated operational power AC3 (T≤55°C) 415	VkW	22
	Rated operational power AC3 (T≤55°C) 440	VkW	22
	Rated operational power AC3 (T≤55°C) 500	VkW	22
	Rated operational power AC3 (T≤55°C) 690	VkW	30
	Rated operational power AC3 (T≤55°C) 100	0VkW	18.5
Short-time allowable current for 10s (IEC/EN6	0947-1)	А	400
Protection fuse			
	gG (IEC)	А	100
	aM (IEC)	А	50
Making capacity (RMS value)		А	400
Breaking capacity at voltage			
	Breaking capacity 440V	А	320
	Breaking capacity 500V	А	265
	Breaking capacity 690V	А	256
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	3.9
	AC3	W	1.3
Tightening torque for terminals			
	min	Nm	4
	max	Nm	5
			-

min

max

lbft

lbft

2.95

3.69



THREE-F

	BF4000A230
-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, A	AC COIL 50/60HZ,
	230VAC

Tightening torque for c	coil terminal			
		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		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 protect	tion according to IEC/EN 60529			IP20 front
Auxiliary contact chara				
Operational current AC	C1 (≤40°C)		А	70
Operating current DC1				
		((0))		Screw / DIN rail
		110V	A	35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°Ċ	80
Max altitude			m	3000
Operating position				0000
oporating pooliton		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Mounting				35mm
Weight			g	1.02
Operations			9	1102
Mechanical life			Cycles	15000000
Electrical life			Cycles	1500000
Safety related data			Cycles	1500000
	0d according to EN/ISO 13489-1			
	00 according to LIV/100 13409-1	rated load	Cicli	1500000
		mechanical load	Cicli	1500000
Mirror contate accordi	ng to IEC/EN 609474-4-1	mechanical ioau	CICII	
	IY IO IEC/EN 009474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.1
	drop-out			

BF4000A230

BF4000A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 230VAC

			min	%Us	0.2	
			max	%Us	0.55	
	of 50/60Hz coil power					
		pick-up	min	%Us	0.85	
			max	%Us	1.1	
		drop-out	Пах	/003	1.1	
			min	%Us	0.4	
			max	%Us	0.55	
	of 60Hz coil powered	at 60Hz				
		pick-up				
			min	%Us	0.8	
			max	%Us	1.1	
		drop-out				
			min	%Us	0.2	
			max	%Us	0.55	
AC operating voltage						
	of 50/60Hz coil power	ed at 50Hz				
			in-rush	VA	210	
			holding	VA	15	
	of 50/60Hz coil power	ed at 60Hz				
			in-rush	VA	195	
	(0011		holding	VA	13	
	of 60Hz coil powered	at 60Hz			040	
			in-rush	VA	210	
Dissignation of holding.			holding	VA	15	
Dissipation at holding :	SZU11. 50HZ					
Max avalas fraguasav				W	5.0	
Max cycles frequency						
Mechanical operations				VV Cycles/ł		
Mechanical operations Operating times						
Mechanical operations	ontrol					
Mechanical operations Operating times		Closing NO				
Mechanical operations Operating times	ontrol	Closing NO	min	Cycles/ł	n 3600	
Mechanical operations Operating times	ontrol	Closing NO	min max	Cycles/I	1 3600 12	
Mechanical operations Operating times	ontrol		min max	Cycles/ł	n 3600	
Mechanical operations Operating times	ontrol	Closing NO Opening NO		Cycles/I	1 3600 12	
Mechanical operations Operating times	ontrol		max	Cycles/h ms ms	12 28	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO	max	Cycles/f ms ms ms	12 28 8	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol	Opening NO	max min max	Cycles/f ms ms ms	12 28 8 22	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC	Opening NO	max min max at 480V	Cycles/f ms ms ms ms	12 28 8 22 40	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo	Opening NO	max min max	Cycles/h ms ms ms ms	12 28 8 22	
Mechanical operations Operating times Average time for Us co UL technical data	ontrol in AC o for three-phase AC mo	Opening NO	max min max at 480V	Cycles/f ms ms ms ms	12 28 8 22 40	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo	Opening NO	max min max at 480V at 600V	Cycles/f ms ms ms s	12 28 8 22 40 32	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC o for three-phase AC mo	Opening NO	max min max at 480V at 600V at 110/120V	Cycles/h ms ms ms A A A	12 28 8 22 40 32	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo erformance for single-phase AC m	Opening NO tor	max min max at 480V at 600V	Cycles/f ms ms ms s	12 28 8 22 40 32	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC o for three-phase AC mo	Opening NO tor	max min max at 480V at 480V at 600V at 110/120V at 230V	Cycles/h ms ms ms ms A A A hp	12 28 8 22 40 32 3 7.5	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo erformance for single-phase AC m	Opening NO tor	max min max at 480V at 600V at 600V at 230V at 200/208V	Cycles/f ms ms ms ms A A A hp hp	12 28 8 22 40 32 3 7.5 10	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo erformance for single-phase AC m	Opening NO tor	max min max at 480V at 600V at 110/120V at 230V at 220/208V at 220/208V at 220/230V	Cycles/h ms ms ms Ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo erformance for single-phase AC m	Opening NO tor	max min max at 480V at 480V at 600V at 600V at 230V at 230V at 220/230V at 220/230V at 460/480V	Cycles/h ms ms ms Ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15 30	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC for three-phase AC mo erformance for single-phase AC m	Opening NO tor	max min max at 480V at 600V at 110/120V at 230V at 220/208V at 220/208V at 220/230V	Cycles/h ms ms ms Ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA)	ontrol in AC for three-phase AC mo erformance for single-phase AC m for three-phase AC m	Opening NO tor	max min max at 480V at 480V at 600V at 600V at 230V at 230V at 220/230V at 220/230V at 460/480V	Cycles/h ms ms ms Ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15 30	
Mechanical operations Operating times Average time for Us co UL technical data Full-load current (FLA) Yielded mechanical pe	ontrol in AC for three-phase AC mo erformance for single-phase AC m	Opening NO tor	max min max at 480V at 480V at 600V at 600V at 230V at 230V at 220/230V at 220/230V at 460/480V	Cycles/h ms ms ms Ms A A A hp hp hp	12 28 8 22 40 32 3 7.5 10 15 30	

BF4000A230



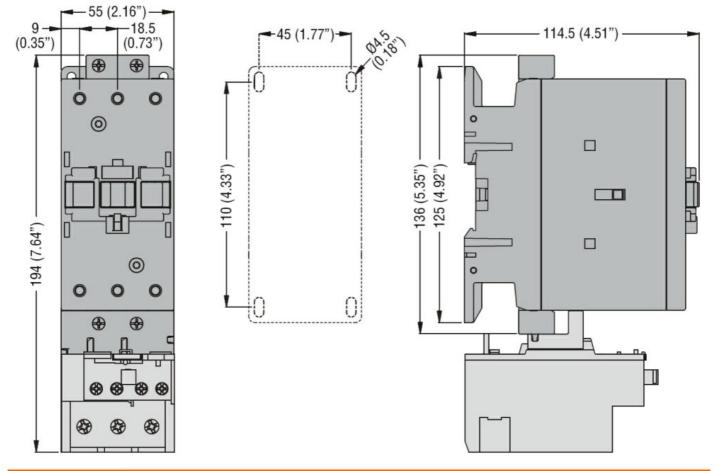
BF4000A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 230VAC

3

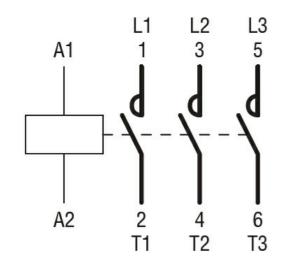
ENERGY AND AUTOMATION

Other features

Pollution degree Dimensions



Wiring diagrams



Certifications and compliance

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		

BF4000A230

Certifications



BF4000A230 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 230VAC

	UL 60947-4-1
Compliance	
	CCC
	cULus
ETIM 6 classification	

EC000066 - Power contactor, AC switching