



Product designation			Power contactor
Product type designation			BF50
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	90
Operational current le			
•	AC-1 (≤40°C)	А	90
	AC-1 (≤55°C)	А	75
	AC-1 (≤70°C)	А	65
	AC-3 (≤440V ≤55°C)	А	50
	AC-4 (400V)	А	28
Rated operational power AC-3 (T≤55°C)	· · · · · · · · · · · · · · · · · · ·		
	230V	kW	11
	400V	kW	22
	415V	kW	22
	440V	kW	22
	500V	kW	22
	690V	kW	30
	1000V	kW	30
Rated operational current AC-3 (T≤55°C)			
	230V	А	50
	400V	А	50
	415V	А	50
	440V	А	50
	500V	А	44
	690V	А	39
	1000V	А	23
Rated operational power AC-1 (T≤40°C)			
	230V	kW	34
	400V	kW	59
	500V	kW	74
	690V	kW	102
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	А	45
	48V	A	40
	75V	A	40
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	2201		
	≤24V	А	60
	-24 V	Л	00

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	48V	А	60
	75V	А	60
	110V	А	50
	220V	А	7
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	60
	48V	A	60
	75V	A	60
	110V	A	55
	220V	A	75
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V	Λ	15
	≤24V	А	60
	48V	A	60
	75V	A	60
	110V	Α	60
	220V	A	90
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	≤24V	А	30
	48V	А	25
	75V	А	22
	110V	А	3
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	35
	48V	A	35
	48 V 75 V		
		A	30
	110V	A	25
	220V	A	5
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series			
	≤24V	A	50
	48V	Α	50
	75V	Α	45
	110V	Α	30
	220V	А	40
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	55
	48V	А	55
	75V	А	55
	110V	A	45
	220V	A	50
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	400
Protection fuse		Λ	400
		٨	100
	gG (IEC)	A	100
	aM (IEC)	A	50
Making capacity (RMS value)		Α	500
Breaking capacity at voltage			
	440V	Α	400
	500V	А	352
	690V	А	312
Resistance per pole (average value)		mΩ	0.8
Power dissipation per pole (average value)			
	Ith	W	6.5
	AC-3	W	2
Tightening torque for terminals	A0-0	vv	<u> </u>



		min	Nm	4
		max	Nm	5
		min	Ibin	2.95
		max	Ibin	3.69
Tightening torque for a	coil terminal			
0 0 1		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2
	Flexible w/o lug conductor section	Шал		2
	T lexible w/o lug conductor section	min	mm²	1.5
			mm²	35
	Flovible of the conductor costion	max	111111	30
	Flexible c/w lug conductor section		mm^2	15
		min	mm²	1.5 35
Dower terminal arcts	tion apporting to IEC/EN COEOO	max	mm²	
	ction according to IEC/EN 60529			IP20 front
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
-				35mm
Weight			g	1020
Operations				4.5.0.0.0.0
Mechanical life			cycles	15000000
Electrical life			cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	15000000
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	j0/60Hz		V	230
AC operating voltage				
······································	of 50/60Hz coil powered at 50Hz			
	of 50/60Hz coil powered at 50Hz pick-up			
		min	%Us	80
		min max		
	pick-up		%Us %Us	80 110
		max	%Us	110
	pick-up		%Us %Us	110 20
	pick-up drop-out	max	%Us	110
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max	%Us %Us	110 20
	pick-up drop-out	max min max	%Us %Us %Us	110 20 55
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	110 20 55 85
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 55
	pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
	pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us %Us	110 20 55 85

of 50/60Hz coil powered at 50Hz



		in-rush	VA	210
		holding	VA	15
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	195
		holding	VA	13
	of 60Hz coil powered at 60Hz	noiding	٧A	10
	or ouriz con powered at ouriz		١/٨	210
		in-rush	VA	210
<u> </u>		holding	VA	15
Dissipation at holding			W	5
Max cycles frequenc				
Mechanical operatior	ו		cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	28
		Πάλ	1113	20
	Opening NO		~~~	0
		min	ms	8
		max	ms	22
UL technical data				
Rated operational vo			V	600
Full-load current (FL/	A) for three-phase AC motor			
		at 480V	А	52
		at 600V	А	41
Yielded mechanical	performance			
	for single-phase AC motor			
	for single phase no motor	110/120V	HP	5
		230V	HP	10
	for three-phase AC motor	/		
		200/208V	HP	15
		220/230V	HP	20
		460/480V	HP	40
		575/600V	HP	40
General USE				
	Contactor			
		AC current	А	90
Short-circuit protection	on fuse 600V		/\	50
	High fault	Chart size of the second	I . A	100
		Short circuit current	kA	100
		Fuse rating	A	150
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	150
		Fuse class		RK5
Ambient conditions				
Temperature				
iomporature	Operating temporature			
	Operating temperature		•	50
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
			-	

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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



BF5000A230 SCHÜTZ BF5000A, 3P (S), 50A AC3, 230V 50/60HZ

m

3000

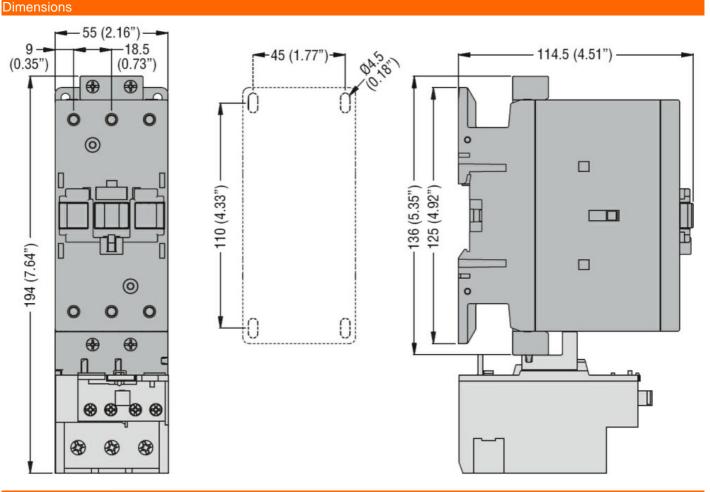
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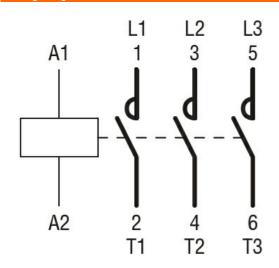
Max altitude

Resistance & Protection

Pollution degree



Wiring diagrams



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	

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BF5000A230 SCHÜTZ BF5000A, 3P (S), 50A AC3, 230V 50/60HZ

	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
ETIM classificatio	n	
		EC000066 -
ETIM 8.0		Power contactor,

Power contactor, AC switching

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