



Product designation			Power contactor
Product type designation			BF12
Contact characteristics			
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	28
Operational current le			
	AC-1 (≤40°C)	А	28
	AC-1 (≤55°C)	A	23
	AC-1 (≤70°C)	A	20
	AC-3 (≤440V ≤55°C)	A	12
	AC-3 (S440V S55 C) AC-4 (400V)		7.9
Deted energianal neuron AC 2 (T <ee°c)< td=""><td>AC-4 (400V)</td><td>A</td><td>7.9</td></ee°c)<>	AC-4 (400V)	A	7.9
Rated operational power AC-3 (T≤55°C)	0001/		
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	17
	48V	А	15
	75V	А	13
	110V	А	6
	220V	А	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	18
	110V	А	13
	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	22
	48V	A	22
	75V	A	20
	110V	A	16
	1100	~~	



	220V	А	11	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series				
	≤24V	А	20	
	48V	А	20	
	75V	А	20	
	110V	А	16	
	220V	A	12	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series				
	≤24V	А	12	
	48V	А	11	
	75V	А	10	
	110V	А	2	
	220V	A	-	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series				
	≤24V	А	15	
	48V	А	13	
	75V	А	12	
	110V	A	8	
	220V	A	2	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	:	-		
	≤24V	A	18	
	48V	A	18	
	75V	A	15	
	110V	A	12	
	220V	A	6	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series				
	≤24V	A	15	
	48V	A	15	
	75V	A	15	
	110V	A	16	
Short time allowship averant for 40a (IEC/ENC0047.4)	220V	<u>A</u>	7	
Short-time allowable current for 10s (IEC/EN60947-1)		A	150	
Protection fuse		٨	22	
	gG (IEC)	A	32 12	
Making appaaity (BMS yolua)	aM (IEC)	A A	12	
Making capacity (RMS value)		A	120	
Breaking capacity at voltage	440V	۸	06	
	440V 500V	A A	96 96	
	500V 690V		96 94	
Popiatanao naripala (avarago valuo)	090 V	A mΩ	2.5	
Resistance per pole (average value) Power dissipation per pole (average value)		11122	2.3	
Power dissipation per pole (average value)	Ith	14/	0	
	lth AC3	W W	2 0.4	
Tightening torque for terminals	A03	vv	0.4	
	min	Nm	1.5	
	max	Nm	1.5	
	min	Ibin	13	
	max	Ibin	16	
Tightening torque for coil terminal	Παλ		10	
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
	11111		0.0	

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Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
	simultaneously connectable		INF.	2
Conductor section	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section	Παλ		10
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	max		0
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			•
		min	mm²	1
		max	mm²	4
				IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN ra
				35mm
Weight			g	354
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			A	10
IEC/EN 60947-5-1 de				A600 - P600
Operating current AC	15			
		230V	A	3
		400V	A	1.9
		500V	A	1.4
Operating current DC	12			
		110V	Α	5.7
a				
Operating current DC	13			
Operating current DC	:13	24V	A	5.7
Operating current DC	213	48V	А	2.9
Operating current DC	:13	48V 60V	A A	2.9 2.3
Operating current DC	:13	48V 60V 110V	A A A	2.9 2.3 1.25
Operating current DC	:13	48V 60V 110V 125V	A A A A	2.9 2.3 1.25 1.1
Operating current DC	:13	48V 60V 110V 125V 220V	A A A A	2.9 2.3 1.25 1.1 0.55
	:13	48V 60V 110V 125V	A A A A	2.9 2.3 1.25 1.1
Operations	:13	48V 60V 110V 125V 220V	A A A A A	2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life	:13	48V 60V 110V 125V 220V	A A A A A cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operations Mechanical life Electrical life		48V 60V 110V 125V 220V	A A A A A	2.9 2.3 1.25 1.1 0.55 0.2
Operations Mechanical life Electrical life Safety related data		48V 60V 110V 125V 220V	A A A A A cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000
Operations Mechanical life Electrical life Safety related data Performance level B ²	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000 2000000
Operations Mechanical life Electrical life Safety related data Performance level B ²	10d according to EN/ISO 13489-1	48V 60V 110V 125V 220V 600V	A A A A A cycles cycles	2.9 2.3 1.25 1.1 0.55 0.2 20000000 2000000

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SCHÜTZ BF1201A, 3P+1Ö, 12A AC3, 230V 50/60HZ

Rated AC voltage at	50/60Hz			V	230
C operating voltage					
	of 50/60Hz coil powered				
		pick-up		0/11-	
			min	%Us	80
		drop-out	max	%Us	110
		ulop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil powered	d at 60Hz	max	/000	
		pick-up			
			min	%Us	85
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
C average coil cons					
	of 50/60Hz coil powered	d at 50Hz	<u>.</u>		
			in-rush	VA	75
	-1.50/0011		holding	VA	9
	of 50/60Hz coil powered	a at 60Hz	:	١/٨	70
			in-rush holding	VA VA	70 6.5
	of 60Hz coil powered at	60Hz	noiuing	٧A	0.0
	or our iz con powered at		in-rush	VA	75
			11-1031	٧A	
			holding	V/A	9
Dissipation at holding	a <20°C 50Hz		holding	VA W	9
			holding	VA W	9 2.5
Dissipation at holding Max cycles frequenc Mechanical operation	у		holding	W	2.5
Max cycles frequence Mechanical operation	у		holding		2.5
Max cycles frequenc Mechanical operation Operating times	y า		holding	W	2.5
Nax cycles frequenc Mechanical operation Operating times	y า		holding	W	2.5
Aax cycles frequenc Aechanical operation Operating times	y n control	Closing NO	holding	W	2.5 3600
Nax cycles frequenc Mechanical operation Operating times	y n control	Closing NO	holding	W	2.5 3600 8
Aax cycles frequenc Aechanical operation Operating times	y n control	,		W cycles/h	2.5 3600
Nax cycles frequenc Mechanical operation Operating times	y n control	Closing NO Opening NO	min max	W cycles/h ms ms	2.5 3600 8 24
Aax cycles frequenc Aechanical operation Operating times	y n control	,	min max min	W cycles/h ms ms	2.5 3600 8 24 10
Aax cycles frequenc Aechanical operation Operating times	y n control	Opening NO	min max	W cycles/h ms ms	2.5 3600 8 24
Aax cycles frequenc Aechanical operation Operating times	y n control	,	min max min max	W cycles/h ms ms ms ms	2.5 3600 8 24 10 20
Aax cycles frequenc Aechanical operation Operating times	y n control	Opening NO	min max min max min	W cycles/h ms ms ms ms	2.5 3600 8 24 10 20 14
Nax cycles frequenc Mechanical operation Operating times	y n control	Opening NO Closing NC	min max min max	W cycles/h ms ms ms ms	2.5 3600 8 24 10 20
Aax cycles frequenc Aechanical operation Operating times	y n control	Opening NO	min max min max min max	W cycles/h ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28
Aax cycles frequenc Aechanical operation Operating times	y n control	Opening NO Closing NC	min max min max min	W cycles/h ms ms ms ms	2.5 3600 8 24 10 20 14 28 7
Ax cycles frequence Aechanical operation Operating times verage time for Us	y n control	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28
Aax cycles frequency Aechanical operation Operating times Average time for Us Average time for Us	y n control	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28 7
Aax cycles frequency Aechanical operation Operating times Average time for Us Average time for Us	y control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28 7
Aax cycles frequency Aechanical operation Operating times Average time for Us Average time for Us	y control in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us Average time for Us	on control in AC A) for three-phase AC moto	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28 7 18 11
Max cycles frequency Mechanical operation Operating times Average time for Us Average time for Us JL technical data Full-load current (FL/	on control in AC A) for three-phase AC moto	Opening NO Closing NC Opening NC	min max min max min max min max min max	W cycles/h ms ms ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28 7 18 11
Aax cycles frequency Aechanical operation Operating times Average time for Us Average time for Us JL technical data Full-load current (FL/	x control in AC A) for three-phase AC moto performance	Opening NO Closing NC Opening NC	min max min max min max min max at 480V at 600V 110/120V	W cycles/h ms ms ms ms ms ms ms a s ms ms hP	2.5 3600 8 24 10 20 14 28 7 18 11 11 11 1
Aax cycles frequency Aechanical operation Operating times Average time for Us Average time for Us JL technical data Full-load current (FL/	A) for three-phase AC moto performance for single-phase AC moto	Opening NO Closing NC Opening NC	min max min max min max min max at 480V at 600V	W cycles/h ms ms ms ms ms ms ms as as as as	2.5 3600 8 24 10 20 14 28 7 18 7 18 11 11
Aax cycles frequence Aechanical operation Operating times Average time for Us Average time for Us JL technical data Full-load current (FL/	x control in AC A) for three-phase AC moto performance	Opening NO Closing NC Opening NC	min max min max min max min max at 480V at 600V 110/120V	W cycles/h ms ms ms ms ms ms ms a s ms ms hP	2.5 3600 8 24 10 20 14 28 7 18 11 11 11 1

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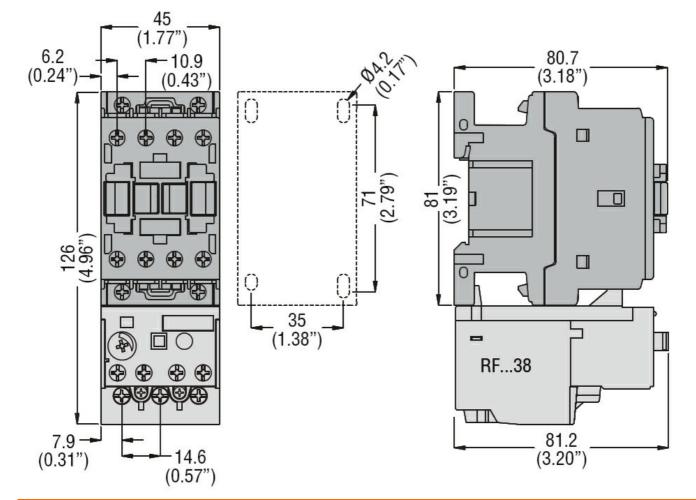
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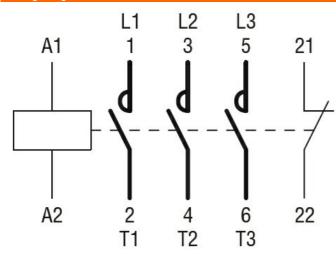
		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit prote	ction fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	70
Contact rating of a	uxiliary contacts according to UL			A600 - P600
Ambient condition	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prot	ection			
Pollution degree				3
Dimensions				



BF1201A230 SCHÜTZ BF1201A, 3P+1Ö, 12A AC3, 230V 50/60HZ



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
	UL 60947-1
	UL 60947-4-1
Certificates	

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	CCC			
	cULus			
	EAC			
sification				

ETIM 8.0

ETIM clas

EC000066 -Power contactor, AC switching

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