



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>1.9</td></ee°c)<>	AC-4 (400V)	A	1.9
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	А	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	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	15	
	48V	А	13	
	75V	А	12	
	110V	A	8	
	220V	А	2	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series				
	≤24V	А	18	
	48V	A	18	
	75V	A	15	
	110V	A	12	
	220V	A	6	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	2201	71	0	
	≤24V	А	15	
	48V	A	15	
	48V 75V	A	15	
	110V	A	16	
	220V	A	7	
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	150	
Protection fuse		Λ	150	
	gG (IEC)	А	32	
	aM (IEC)	A	12	
Making consoity (PMS value)		A	120	
Making capacity (RMS value)		A	120	
Breaking capacity at voltage	44017	^	06	
	440V	A	96 06	
	500V	A	96 04	
	690V	A	94	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)	1.1	147	0	
	Ith	W	2	
	AC3	W	0.4	
The base of the second state of				
Tightening torque for terminals				
Tightening torque for terminals	min	Nm	1.5	
Tightening torque for terminals	max	Nm	1.8	
Tightening torque for terminals	max min	Nm Ibin	1.8 13	
	max	Nm	1.8	
	max min	Nm Ibin Ibin	1.8 13 16	
Tightening torque for terminals	max min	Nm Ibin Ibin Nm	1.8 13 16 0.8	
	max min max	Nm Ibin Ibin	1.8 13 16	

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· · · · · · · · · · · · · · · · · · ·	max	Ibin	0.74
simultaneously connectable		Nr.	2
AWG/KCMII	may		10
Elevible w/e lug conductor section	max		10
	min	mm <sup>2</sup>	1
			6
Elexible c/w lug conductor section	Пах		0
	min	mm²	1
			4
Elexible with insulated spade lug conductor section	тах		
	min	mm²	1
			4
			IP20 when
tion according to IEC/EN 60529			properly wired
	normal		Vertical plan
	allowable		±30°
			Screw / DIN ra
			35mm
		g	368
AWG/kcmil conductor section			
	max		10
acteristics			
		Α	10
signation			A600 - P600
15			
	230V	А	3
	400V	А	1.9
	500V	А	1.4
12			
	110V	А	5.7
13			
		А	5.7
	48V	А	2.9
	60V	А	2.3
	110V	А	1.25
	125V	А	1.1
	220V	А	0.55
	600V	А	0.2
		cycles	20000000
		cycles	2000000
0d according to EN/ISO 13489-1			
	اممدا اممد	cycles	2000000
	rated load	Cycles	
	echanical load	cycles	20000000
me ing to IEC/EN 609474-4-1		-	
	AWG/Kcmil         Flexible w/o lug conductor section         Flexible c/w lug conductor section         Flexible with insulated spade lug conductor section         ction according to IEC/EN 60529         AWG/kcmil conductor section         acteristics         signation         15	AWG/Kcmil max Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section Flexible with insulated spade lug conductor section Flexible with insulated spade lug conductor section min max Flexible with insulated spade lug conductor section min max AWG/kcmil conductor section AWG/kcmil conductor section AWG/kcmil conductor section AWG/kcmil conductor section 15 230V 400V 500V 12 110V 13 24V 48V 60V 110V 125V	AWG/Kcmil max Flexible w/o lug conductor section min mm <sup>2</sup> max mm <sup>2</sup> Flexible c/w lug conductor section min mm <sup>2</sup> max mm <sup>2</sup> Flexible with insulated spade lug conductor section min mm <sup>2</sup> max mm <sup>2</sup> tition according to IEC/EN 60529 AWG/kcmil conductor section max adderistics A Signation 15 230V A 400V A 500V A 12 110V A 13 24V A 48V A 60V A 110V A 13 24V A 48V A 60V A 110V A 12 110V A 13 24V A 48V A 60V A 110V A 220V A 60V A 110V A 125V A 220V A 600V A 110V A 125V A 220V A 600V A 110V A 125V A 220V A 600V A 120V A 110V A 125V A 220V A 600V A 100V A 100V A 125V A 220V A 600V A 100V A 1

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SCHÜTZ BF1201A, 3P+1Ö, 12A AC3, 400V 50/60HZ

Rated AC voltage at 5	0/60Hz			V	400
C operating voltage					
	of 50/60Hz coil powere				
		pick-up		0/11-	90
			min	%Us %Us	80 110
		drop-out	max	7005	110
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil powere	d at 60Hz	Пал	/000	
	0. 00,001 <u>-</u> 00. ponoro	pick-up			
			min	%Us	85
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
C average coil consu					
	of 50/60Hz coil powere	d at 50Hz			
			in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil powere	d at 60Hz			70
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powered a	[ 60HZ	in-rush	\/A	75
			in-rusn	VA	75
			bolding	١/٨	0
Dissingtion at holding	<20°C 50H7		holding	VA	9
Dissipation at holding	≤20°C 50Hz		holding	VA W	9 2.5
lax cycles frequency	≤20°C 50Hz		holding	W	2.5
lax cycles frequency lechanical operation	≤20°C 50Hz		holding		2.5
Aax cycles frequency Aechanical operation Operating times			holding	W	2.5
Max cycles frequency Mechanical operation Operating times			holding	W	2.5
Aax cycles frequency Aechanical operation Operating times	ontrol	Closing NO	holding	W	2.5
lax cycles frequency lechanical operation operating times	ontrol	Closing NO	holding	W	2.5
Aax cycles frequency Aechanical operation Operating times	ontrol	-		W cycles/h	2.5 3600
Aax cycles frequency Aechanical operation Operating times	ontrol	Closing NO Opening NO	min max	W cycles/h ms ms	2.5 3600 8 24
lax cycles frequency lechanical operation operating times	ontrol	-	min max min	W cycles/h ms ms ms	2.5 3600 8 24 10
Aax cycles frequency Aechanical operation Operating times	ontrol	Opening NO	min max	W cycles/h ms ms	2.5 3600 8 24
lax cycles frequency lechanical operation operating times	ontrol	-	min max min max	W cycles/h ms ms ms	2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol	Opening NO	min max min max min	W cycles/h ms ms ms ms ms	2.5 3600 8 24 10 20 14
lax cycles frequency lechanical operation operating times	ontrol	Opening NO Closing NC	min max min max	W cycles/h ms ms ms	2.5 3600 8 24 10 20
Aax cycles frequency Aechanical operation Operating times	ontrol	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
lax cycles frequency lechanical operation operating times	ontrol	Opening NO Closing NC	min max min max min max min max min	W cycles/h ms ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28 7
lax cycles frequency lechanical operation perating times verage time for Us co	ontrol	Opening NO Closing NC	min max min max min max	W cycles/h ms ms ms ms ms ms	2.5 3600 8 24 10 20 14 28
lax cycles frequency lechanical operation operating times verage time for Us co verage time for Us co	ontrol 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 ms	2.5 3600 8 24 10 20 14 28 7
Aax cycles frequency Aechanical operation Operating times average time for Us co Verage time for Us co	ontrol	Opening NO Closing NC Opening NC	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
lax cycles frequency lechanical operation operating times verage time for Us co 	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max at 480V	W cycles/h 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 co verage time for Us co <u>UL technical data</u> full-load current (FLA)	ontrol in AC ) for three-phase AC moto	Opening NO Closing NC Opening NC	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 co Verage time for Us co Us construction JL technical data	ontrol in AC ) for three-phase AC moto	Opening NO Closing NC Opening NC	min max min max min max min max min max at 480V	W cycles/h 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 co verage time for Us co <u>UL technical data</u> full-load current (FLA)	ontrol in AC ) for three-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	2.5 3600 8 24 10 20 14 28 7 18 7 18 11 11
Aax cycles frequency Aechanical operation Operating times Average time for Us co Verage time for Us co Us construction	ontrol in AC ) for three-phase AC moto	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	2.5 3600 8 24 10 20 14 28 7 18 11 11 11 1
lax cycles frequency lechanical operation perating times verage time for Us co verage ti	ontrol in AC ) for three-phase AC moto	Opening NO Closing NC Opening NC or	min max min max min max min max at 480V at 600V	W cycles/h ms ms ms ms ms ms ms hP	2.5 3600 8 24 10 20 14 28 7 18 7 18 11 11

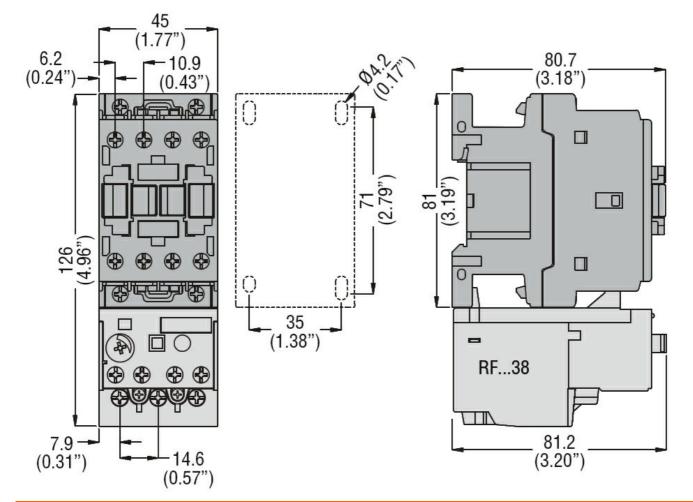
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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

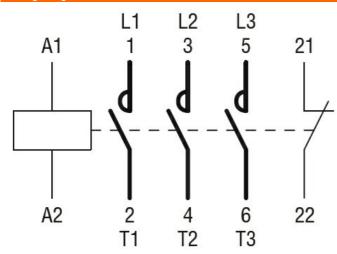


		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	А	28
	Auxiliary contacts			
		AC voltage	V	600
		AC current	А	10
		DC voltage	V	250
		DC current	А	1
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	30
	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





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
ETIM classification	

ETIM 8.0

EC000066 -Power contactor, AC switching

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