



			Power contactor
Product type designation			BF09
Contact characteristics		Nler	3
Number of poles		Nr. V	<u> </u>
Rated insulation voltage Ui IEC/EN Rated impulse withstand voltage Uimp		kV	6
Operational frequency		ĸv	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	25
Operational current le		A	20
	AC-1 (≤40°C)	۸	25
	AC-1 (≤40 C) AC-1 (≤55°C)	A	20
	AC-1 (≤55 C) AC-1 (≤70°C)	A A	18
	AC-3 (≤440V ≤55°C)	A	9
	AC-3 ( <u>3440</u> V <u>355</u> C) AC-4 (400V)	A	9 4.9
Rated operational power AC-3 (T≤55°C)	AC-4 (400V)	~	4.5
	230V	kW	2.2
	230V 400V	kW	4.2
	400V 415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)	0001		1.0
	230V	kW	9.5
	400V	kW	16
	500V	kW	21
	690V	kW	27
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	15
	48V	A	13
	75V	A	12
	110V	А	6
	220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	18
	48V	А	18
	75V	А	17
	110V	А	12
	220V	А	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	20
	48V	А	20
		А	20
	75V	~	20



	220V	А	10	
EC 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 $L/R \le 15$ ms with 1 poles in series				
	≤24V	А	10	
	48V	А	9	
	75V	А	8	
	110V	А	2	
	220V	А	-	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	13	
	48V	А	11	
	75V	A	10	
	110V	A	7	
	220V	A	2	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series	220 V	/ `	<u> </u>	
	≤24V	А	15	
	48V	A	15	
	48V 75V	A	13	
	110V	A	13	
	220V	A	6	
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series	2200	A	0	
The max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	<241	٨	15	
	≤24V	A	15	
	48V	A	15	
	75V	A	15	
	110V	A	12	
	220V	A	7	
Short-time allowable current for 10s (IEC/EN60947-1)		A	150	
Protection fuse				
	gG (IEC)	А	25	
	aM (IEC)	A	10	
Making capacity (RMS value)		A	90	
Breaking capacity at voltage				
	440V	А	72	
	500V	А	72	
	690V	Α	71	
Resistance per pole (average value)		mΩ	2.5	
Power dissipation per pole (average value)				
	lth	W	1.6	
	AC-3	W	0.2	
Tightening torque for terminals				
	min	Nm	1.5	
	max	Nm	1.8	
	min	lbin	1.1	
	max	Ibin	1.5	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	
		10111	0.0	



	max		0.74
simultaneously connectable		Nr.	2
AWG/KCMII	10 O.V		10
Elevible w/e lug conductor conting	max		10
Flexible w/o lug conductor section	min	mm <sup>2</sup>	1
			6
Elevible c/w lug conductor section	IIIdA		0
The side of what conductor section	min	mm <sup>2</sup>	1
			4
Elexible with insulated spade lug conductor section			-
The solution with insulated space has conductor section	_	mm²	1
			4
	max		IP20 when
tion according to IEC/EN 60529			properly wired
	normal		Vertical plan
	allowable		±30°
			Screw / DIN ra
			35mm
		g	360
AWG/kcmil conductor section			
	max		10
acteristics			
		Α	10
			A600 - P600
15			
	230V	А	3
		A	1.9
	500V	A	1.4
12			
	110V	A	5.7
13			
		A	5.7
			2.9
		A	2.3
		А	1.25
		А	1.1
			0.55
	600V	A	0.2
		-	2000000
		cycles	2000000
0d according to EN/ISO 13489-1			
-	rated load	cycles	2000000
n	rated load nechanical load	cycles cycles	2000000 20000000
-		•	
	AWG/kcmil conductor section acteristics signation 15 12	AWG/Kcmil max Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section Flexible with insulated spade lug conductor section nin max Flexible with insulated spade lug conductor section normal allowable AWG/kcmil conductor section AWG/kcmil conductor section acteristics asignation 15 230V 400V 500V 12 11	simultaneously connectable Nr.          AWG/Kcmil       max         Flexible w/o lug conductor section       min       mm²         Flexible c/w lug conductor section       min       mm²         Flexible c/w lug conductor section       min       mm²         Flexible with insulated spade lug conductor section       min       mm²         rormal       allowable       max       mm²         signation       g       AWG/kcmil conductor section       max         15       230V       A       A00V       A         12       110V       A       13       24V       A         13       24V       A       48V       A       60V       A         120       110V       A       125V       A       220V       A

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SCHÜTZ BF09, 3P+1Ö, 9A AC3, 24V 50/60HZ

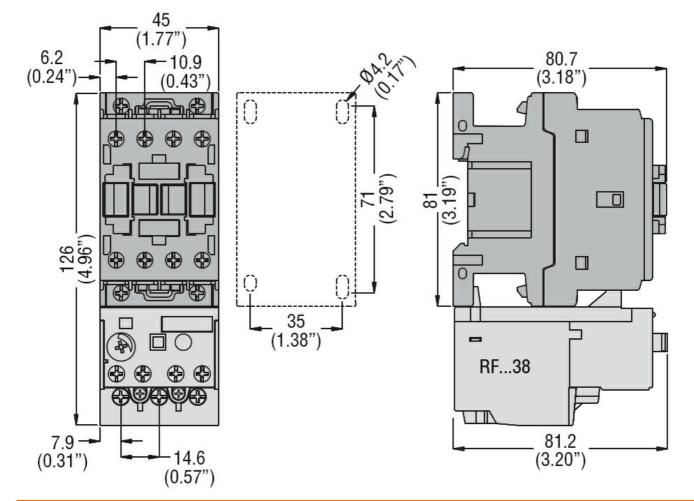
Rated AC voltage at 5	60/60Hz			V	24
AC operating voltage					
	of 50/60Hz coil po				
		pick-up			
			min	%Us	80
		dron out	max	%Us	110
		drop-out	min	0/110	20
			min	%Us %Us	20 55
	of 50/60Hz coil po	worod at 60Hz	max	/005	55
		pick-up			
		ρισκ-αρ	min	%Us	85
			max	%Us	110
		drop-out	max	/000	110
			min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				
J	of 50/60Hz coil po	wered at 50Hz			
	<b>------</b>	-	in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil po	wered at 60Hz	<u></u>		
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powe	red at 60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
DC coil operating					
Average coil consum	otion ≤20°C				
			in-rush	W	5.4
			holding	W	2.4
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c					
	in AC				
		Closing NO	min		0
			min	ms	8 24
		Opening NO	max	ms	24
					10
			min		10
			min	ms ms	20
			min max	ms	20
		Closing NC	max	ms	
		Closing NC	max min	ms ms	14
			max	ms	
		Closing NC Opening NC	max min max	ms ms ms	14 28
			max min	ms ms ms ms	14 28 7
JL technical data			max min max min	ms ms ms	14 28
	) for three-phase AC	Opening NC	max min max min	ms ms ms ms	14 28 7
<mark>UL technical data</mark> Full-load current (FLA	) for three-phase AC	Opening NC	max min max min max	ms ms ms ms	14 28 7 18
	) for three-phase AC	Opening NC	max min max min	ms ms ms ms	14 28 7
	· · ·	Opening NC	max min max min max at 480V	ms ms ms ms Ms	14 28 7 18 7.6

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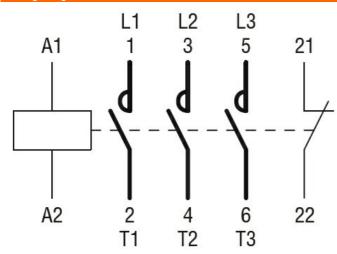


		110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor			
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE				
	Contactor			
	Condition	AC current	А	25
	Auxiliary contacts		73	20
	Advinary contacts	AC voltage	V	600
		AC current	Å	10
		DC voltage	V	250
		DC voltage DC current	Å	1
		DC current	A	ļ
Short-circuit protection				
	High fault			100
		Short circuit current	kA	100
		Fuse rating	А	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
	liary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				
Bimonolono				





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	

 CCC

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EC000066 -Power contactor, AC switching