

BF 50 wall fans

Technical User Guide



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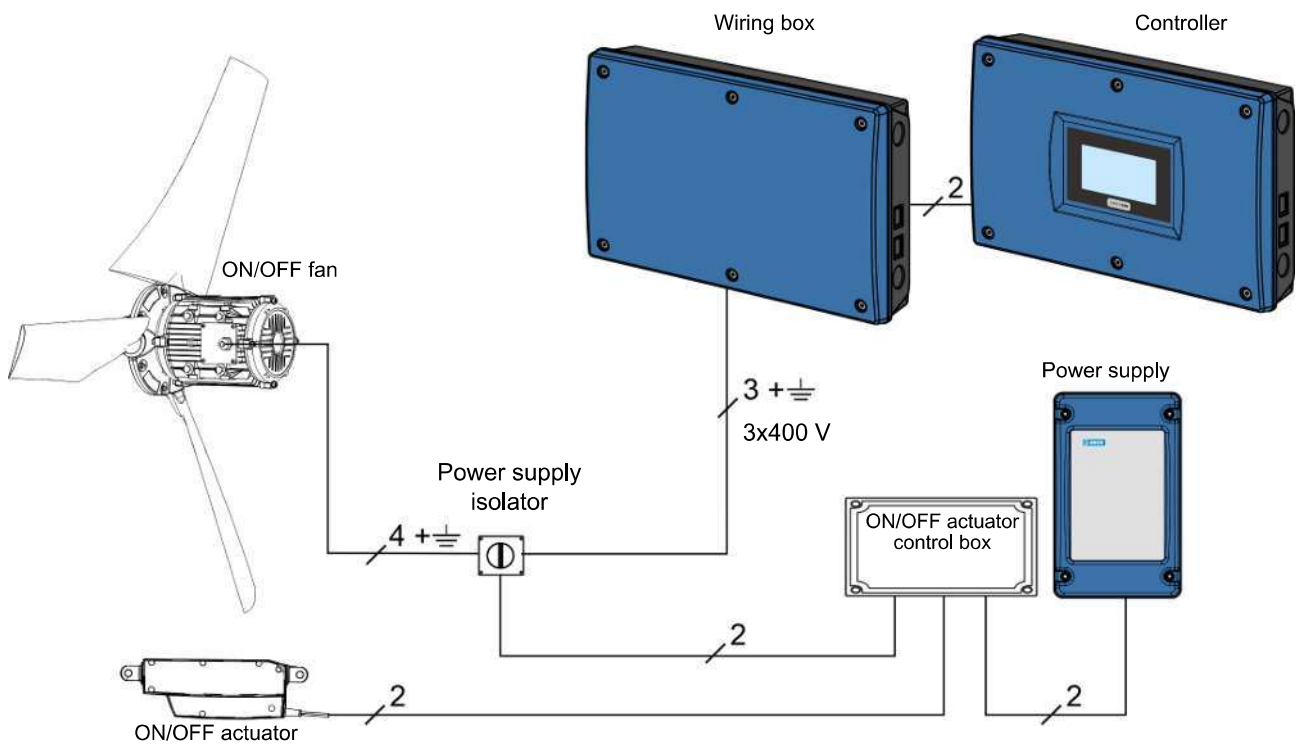
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<http://docs.skov.com/1241>

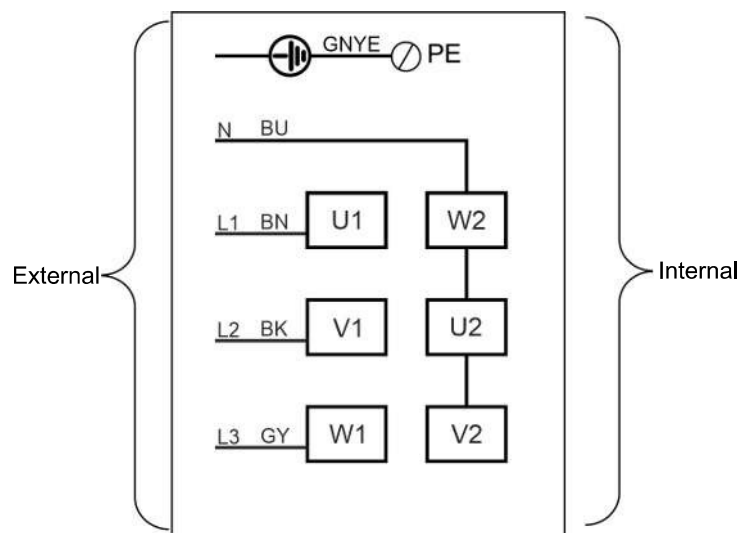


4.1.24 BF 50 EL ON/OFF 3x400 V (435388)

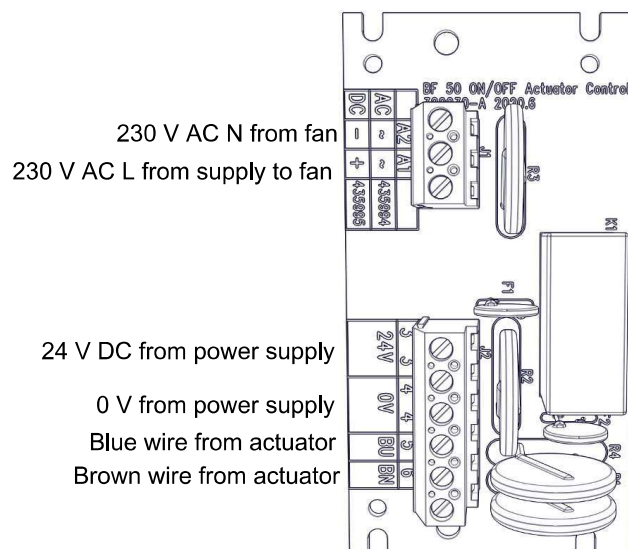
4.1.24.1 Cable plan



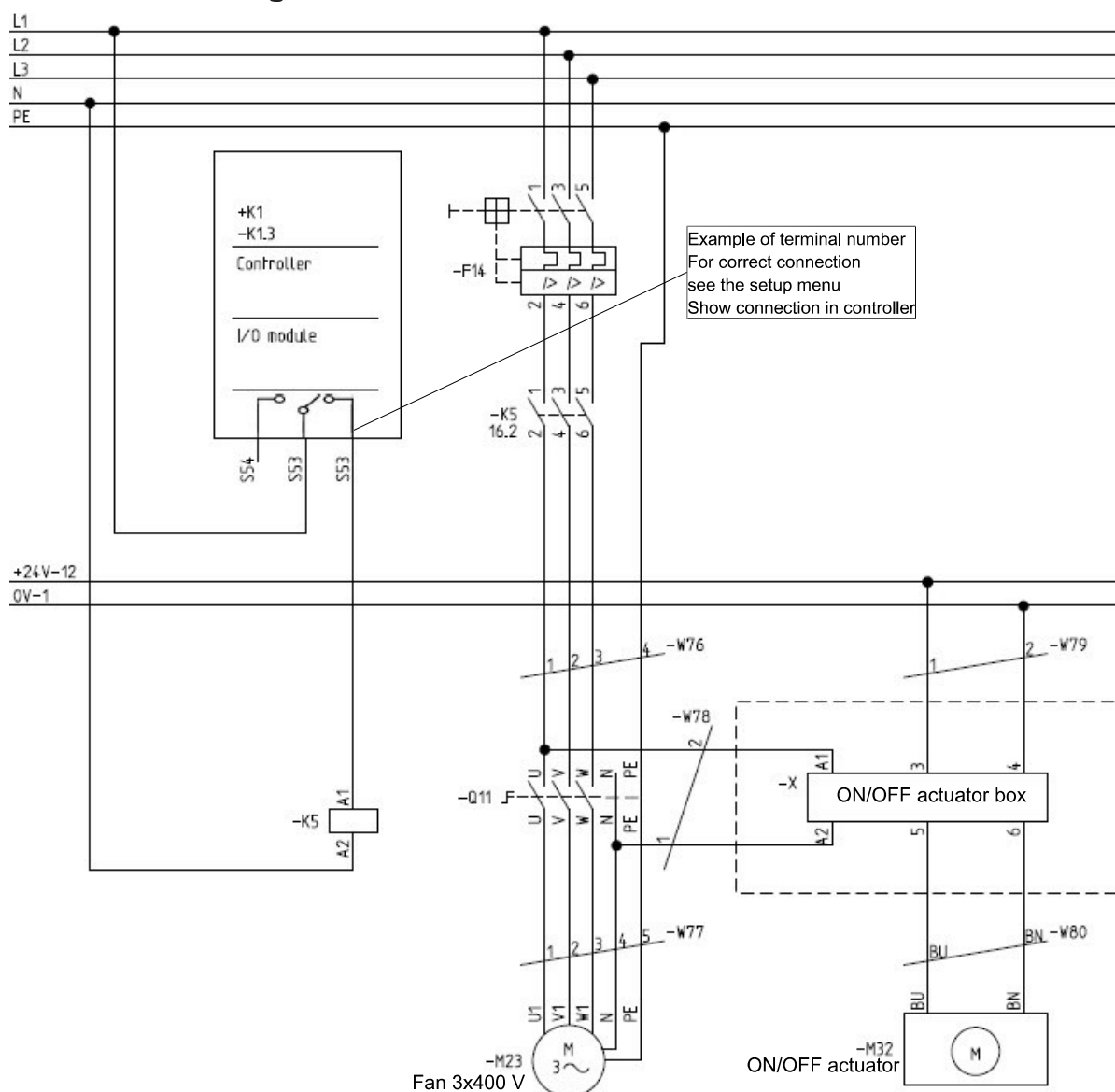
4.1.24.2 Terminals in ON/OFF 3x400 V fan



4.1.24.3 ON/OFF actuator control box



4.1.24.4 Circuit diagram



7.5 BF 50 ON/OFF EL 3x400 V

		435388	435404
		BF 50 ON/OFF EL 3x400 V	BF 50 ON/OFF EL 3x400 V w/ther- mal cutout
Electrical			
Rated voltage	V AC	400 +/-10%	
Operating voltage	V AC	360 – 440	
Frequency	Hz	50	
Max. current consump- tion	A	3.3	
At 400 V AC supply			
Max. input power (P1)	W	1534 (1523)	
Max. power (P2) shaft	W	1200	
Efficiency motor [η]	%	78.5	
CosPhi [Φ]	Factor	0.71	
Motor protection thermal cutout (PTO)		-	Thermik S01 120.05 in separate ca- ble
Mechanical			
Cable length	m	0.7	
Impeller diameter	mm	1278	
Number of fan blades	pcs.	3	
Fan blade pitch	°	39	
Fan output			
Revolutions (rated cur- rent) per minute	RPM	680	
Air output at -0 Pa	m³/h	43500 (48400)	
Air output at -10 Pa	m³/h	41500 (46400)	
Air output at -20 Pa	m³/h	39100 (43600)	
Air output at -30 Pa	m³/h	36600 (40700)	
Air output at -40 Pa	m³/h	34300 (38000)	
Air output at -50 Pa	m³/h	31900 (35300)	
Air output at -60 Pa	m³/h	29400 (32300)	
Air output at -70 Pa	m³/h	26300 (28800)	
Air output at -80 Pa	m³/h	22500 (24400)	
Power consumption at -10 Pa	W	1534 (1461)	
Specific output at -10 Pa	m³/kWh	27100 (31800)	
Specific energy at -10 Pa	Watt/100 0 m³/h	37 (32)	
Testing body		SKOV A/S	
Environment			
Temperature, operation	°C (°F)	÷ 40 to + 40 (÷ 40 to 104)	
Start temperature	°C (°F)	÷ 40 to + 50 (÷ 40 to 122)	
Storage temperature	°C (°F)	÷ 40 to + 70 (÷ 40 to 158)	

		435388 BF 50 ON/OFF EL 3x400 V	435404 BF 50 ON/OFF EL 3x400 V w/ther- mal cutout
Ambient humidity, operation	% RH	10 - 95	
Protection class	IP	IP 65	
Fan noise, outside (2 m, 45 degrees)	dB (A)	72	
Shipment			
Shipping weight	g	75000	

7.5.1 ErP/Ecodesign BF 50 ON/OFF EL 3x400 V

Fan type		BF 50 ON/OFF EL 3x400 V	BF 50 ON/OFF EL 3x400 V w/ thermal cutout
Ecodesign		ErP 2015 (N40)	
Efficiency classification	N	40	
Efficiency (η)	%	47.0	
Measurement setup		A	
Fan efficiency		Static	
Optimum efficiency	%	48.9	
VSD required		No	
Year of production		2020	
Name of manufacturer		SKOV A/S	
Item number		435388	435404
Motor power input	kW	1.478	
Flow rate	m ³ /s	8.12	
Optimum pressure	Pa	80	
Revolutions per minute	RPM	710	
Pressure conditions		1	
Recycling/Disposal		The product is designed to be recycled and customers will be able to deliver their used products to their local collection points/recycling centers in accordance with local instructions	
Environmental impact		-	