prio 250EC-L circ. duct

Article Number: 78188

Variant : 230V 1~ 50/60Hz



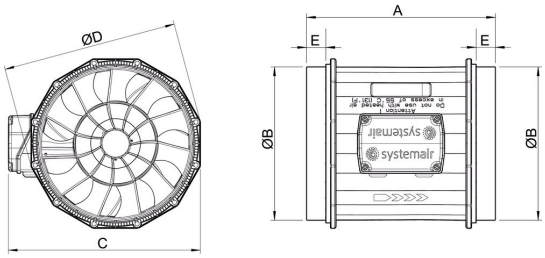
Description

EC-motors, high level of efficiency
Low SFP values
100% speed controllable
Integrated motor protection
Can be installed in any position
Compact design
Low sound level
Potentiometer included for ease of commissioning
EC fans are intelligent devices using integrated motor electronics, ensuring that the motor always runs a optimal load. With EC motors the proportion of energy utilized effectively is higher, which as a result reduces the energy usage considerably, compared with AC motors.
Another special feature of EC fans is their energy-saving potential not only at full load, but especially when speed controlled, i.e. at part load. When operating at part-load, the energy used is much lower...
Find more details in our online catalogue

Technical parameters

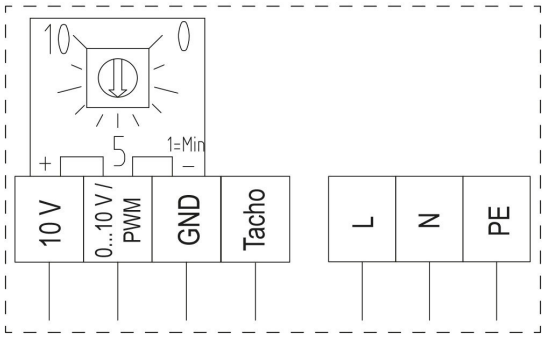
Norminal data		
Voltage (Nominal)	230	V
Frequency	50; 60	Hz
Phase(s)	1~	
Input power	170	W
Input current	1.34	A
Impeller speed	2,804	r.p.m.
Air flow	max 0.585	m³/s
Specific ratio	1,000000	
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C
Sound data		
Sound pressure level at 3m (20m² Sabin)	50	dB(A)
Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	
Data according to ErP		
Measurement category	D	
Dimensions and weights		
Duct dimension; Circular, inlet	250	mm
Duct dimension; Circular, outlet	250	mm
Weight	3.8	kg
Others		
Duct connection type	Circular	
Motor type	EC	

Dimension



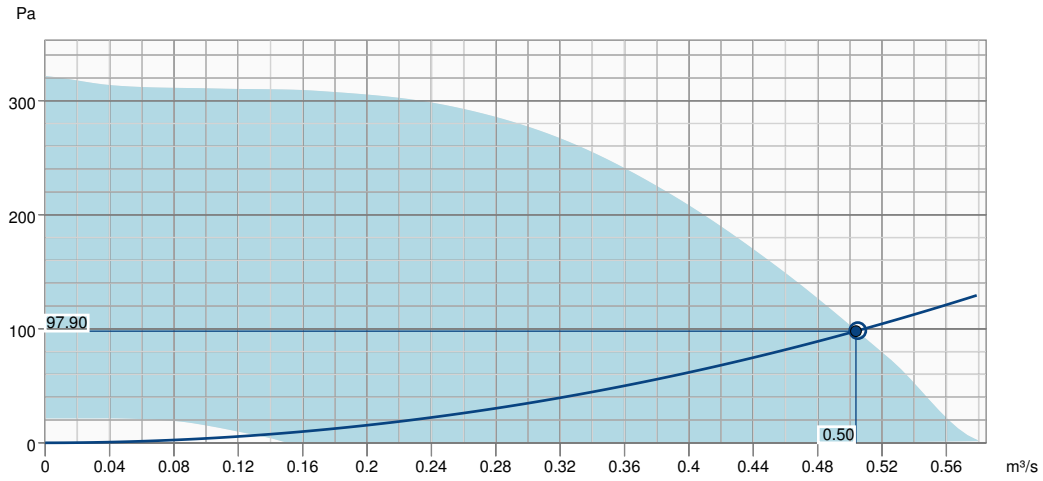
	A	øB	C	øD	E
prio 250	300	249	303	284	30

Wiring



.	Function/assignment
L	Power supply 230V AC, 50...60 Hz, see name plate for voltage range
N	Neutral conductor
PE	Protective conductor
0...10V / PWM	Controller input 0...10V or PWM
10V	Voltage output 10V / Short-circuit-proofpower supply for external devices (e.g. poti)
GND	GND-connection of the controller interface
Tacho	Speed output: Open Collector, 1 impulse per revolution, electrically isolated, Isink_max =10mA

Performance curve



Hydraulic data	
Required air flow	0.50 m³/s
Required static pressure	98 Pa
Working air flow	0.50 m³/s
Working static pressure	98 Pa
Air density	1.204 kg/m³
Power	169.7 W
Fan control - RPM	2690 rpm
Current	1.34 A
SFP	0.337 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	33	46	59	64	78	71	61	49	79
Outlet	dB(A)	34	48	60	66	79	73	62	51	80
Surrounding	dB(A)	29	27	33	48	77	69	49	38	78
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	71
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	57

Accessories

CXE/AVC Modbus (37256)
DMD-C Pressure controller (15793)
EC-Basic-CO2 and temperature (24808)
EC-Basic-H humidity (24807)
EC-Basic-T temperature (24805)
EC-Basic-U universal 0-10V (24806)
EC-Vent control board (3115)
EC-Vent Room Unit (3018)
MTP 10, 10K, Speed control (32731)
MTP 20, on/off, 3-step (310220)
MTV-1/010 Controller 0..10V+ (30650)
REV-3POL/03 ON/OFF (33978)
SG 250 Protection guard (5610)
VKK-250 Back draft damper (1627)
CB 250-6,0 400V/2 Duct heater (5372)
CO2RT-R-D Transmitter (6993)
Presence detector/IR24-P (6995)
prio 250 mount. bracket compl. (79316)
RT 0-30 Room Thermostat (5151)
CB 250-3,0 230V/1 Duct heater (5385)
CB 250-9,0 400V/3 Duct heater (5373)
CBM 250-6,0 400V/2 Duct heater (9089)
CWK 250-3-2,5 Duct cooler,circ (30024)
FFR 250 Filter cassette (1776)
FGR 250 Filter cassette (1815)
FK 250 Fast clamp (1612)
LDC 250-900 Silencer (5196)
RSK-250 Back draft damper (5603)
VBC 250-2 Water heating batt (5460)
VBC 250-3 Water heating batt (9843)
VBF 250 Water heating battery (1733)
VK-25 Louvre shutter (5640)
IGC-250 Intake grille (76878)

Documents

prioair250_o_rahmen.dxf
EU DECLARATION OF CONFORMITY_PRIO_EN_001.PDF
imo_prioair_en_002