

prio 160E2 circular duct fan

Article Number: 36916

Variant : 230V 1~ 50Hz



Description

- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Compact design
- Low SFP values and high efficiency
- Low sound level

The prioAir series is designed for installation in ducts. PrioAir fans have 25 mm long spigot connections acc. with EN 1506:1997.

The fans have aerodynamically optimized impellers and guide vanes with intergrated external rotor motc. The fans can be speed-controlled via a stepless thyristor or a 5-step transformer. To protect the motor from overheating the fan has integrated thermal contacts with manual reset in acc. with EN 60335-2-80. The air tight casing (tightness class C in acc. with EN12237:2003) is manufactured from special composite material.

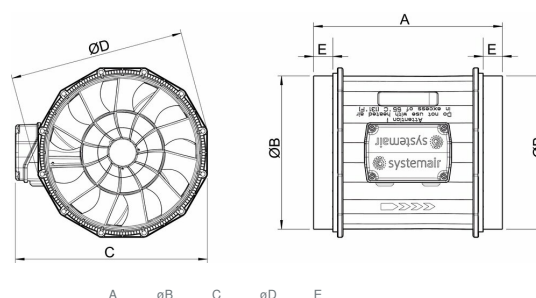
The mounting...

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Technical parameters

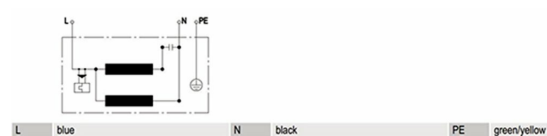
Nominal data	
Voltage (Nominal)	230 V
Frequency	50 Hz
Phase(s)	1~
Input power	26 W
Input current	0.12 A
Impeller speed	2,447 r.p.m.
Air flow	max 0.121 m³/s
Capacitance of capacitor	0.7 µF
Temperature of transported air	max 55 °C
Max temperature of transported air, when speed controlled	55 °C
Sound data	
Sound pressure level at 3m (20m² Sabin)	35 dB(A)
Protection/Classification	
Enclosure class, motor	IP44
Insulation class	B
Data according to ErP	
ErP ready	ErP 2018
Dimensions and weights	
Duct dimension: Circular, inlet	160 mm
Duct dimension: Circular, outlet	160 mm
Weight	1.4 kg
Others	
Duct connection type	Circular
Motor type	AC

Dimension

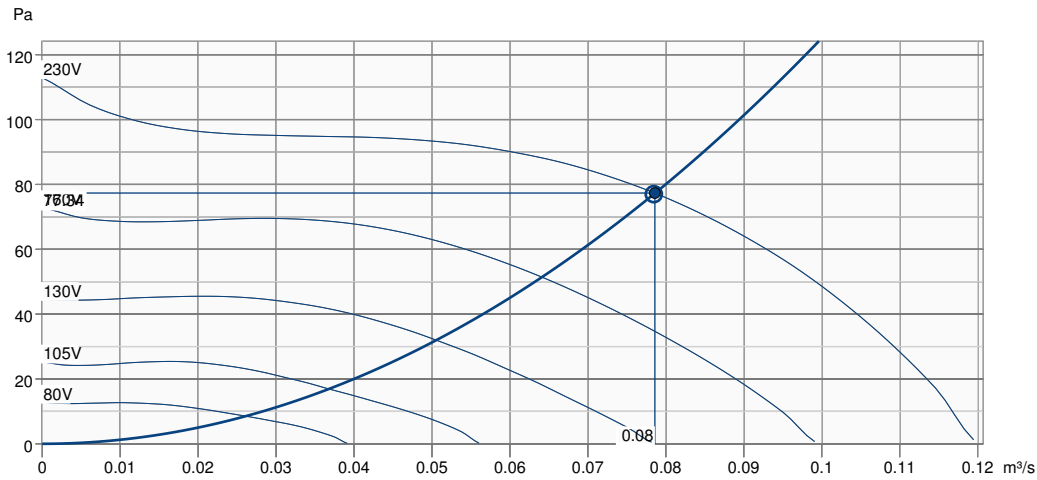


	A	øB	C	øD	E
prio 160	220	159	211	187	25

Wiring



Performance curve



Hydraulic data

Required air flow	0.08 m³/s
Required static pressure	77 Pa
Working air flow	0.08 m³/s
Working static pressure	77 Pa
Air density	1.204 kg/m³
Power	26.7 W
Fan control - RPM	2416 rpm
Current	0.12 A
SFP	0.340 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	43	47	60	54	54	51	43	28	62
Outlet	dB(A)	41	46	64	56	56	52	44	29	66
Surrounding	dB(A)	18	<10	33	34	36	34	19	<10	40
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	33
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	19

Accessories

CO2RT-R-D Transmitter (6993)	CXE/AVC Modbus (37256)
DTV500A (96807)	FFR 160 Filter cassette (1770)
FGR 160 Filter cassette (1809)	FK 160 Fast clamp (1610)
FRQ5S-E-6A (37421)	IGK-160 Wall Grid (1632)
RE 1,5 Speed control (5000)	REE 1 Speed control (5314)
REPT 6 Digital regulator (5698)	RETP 6 Temp/Pressure regulator (32293)
REU 1.5 Speed control (5004)	REV-3POL/03 ON/OFF (33978)
RSK-160 Back draft damper (5601)	RT 0-30 Room Thermostat (5151)
SG 160 Protection guard (5608)	VKK-160 Back draft damper (1625)
CB 160-1,2 230V/1 Duct heater (5291)	CB 160-2,1 230V/1 Duct heater (5292)
CB 160-2,7 230V/1 Duct heater (5382)	CB 160-5,0 400V/2 Duct heater (5383)
CBM 160-2,1 230V/1 Duct heater (5482)	CWK 160-3-2,5 Duct cooler,circ (30022)
FRQS-E-6A (37419)	LDC 160-300 Silencer (53108)
LDC 160-600 Silencer (5192)	LDC 160-900 Silencer (5193)
Presence detector/IR24-P (6995)	prio 150/160 mount. br. compl. (79314)
VBC 160-2 Water heating batt (5458)	VBC 160-3 Water heating batt (9840)
VBF 160 Water heating battery (1731)	THB 160 Hood w. cover pl. Red (2034)
THB 160 Hood w.cover pl. black (1764)	THS 160 Hood w. cover pl. Red (2044)
THS 160 Hood w.cover pl. black (1839)	DMD-C Pressure controller (15793)
IGC-160 Intake grille (76876)	STL 1.5 Speed controller (84251)

Documents

MANUAL_PRIOAIR_EN_[006].PDF

prioair160_o_rahmen.dxf

EU DECLARATION OF CONFORMITY_PRIO_EN_001.PDF