

# HMF 112 T4 (A3:4) F400 18,5kW 34° (26114563434F)

## GENERAL DATA



LONG CASE AXIAL FAN 400°C/2H

MANUFACTURING FEATURES:

- Long case axial fan with reinforced body.
- Modular motor-impeller assembly. Cast aluminium impeller with variable pitch angle. Polyester powder finishing coat.
- Housing with motor access door for easy connection.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class H insulation certified 400°C/2h. Manufactured with standard voltages: 400V(Y) 50Hz in three phase motors up to 3kW and 400V 50Hz for higher powers and 2 speed motors. IE3 efficiency motor from 0,75kW up to 45kW in single speed

APPLICATIONS:

Designed for inline installation, they are suitable for:

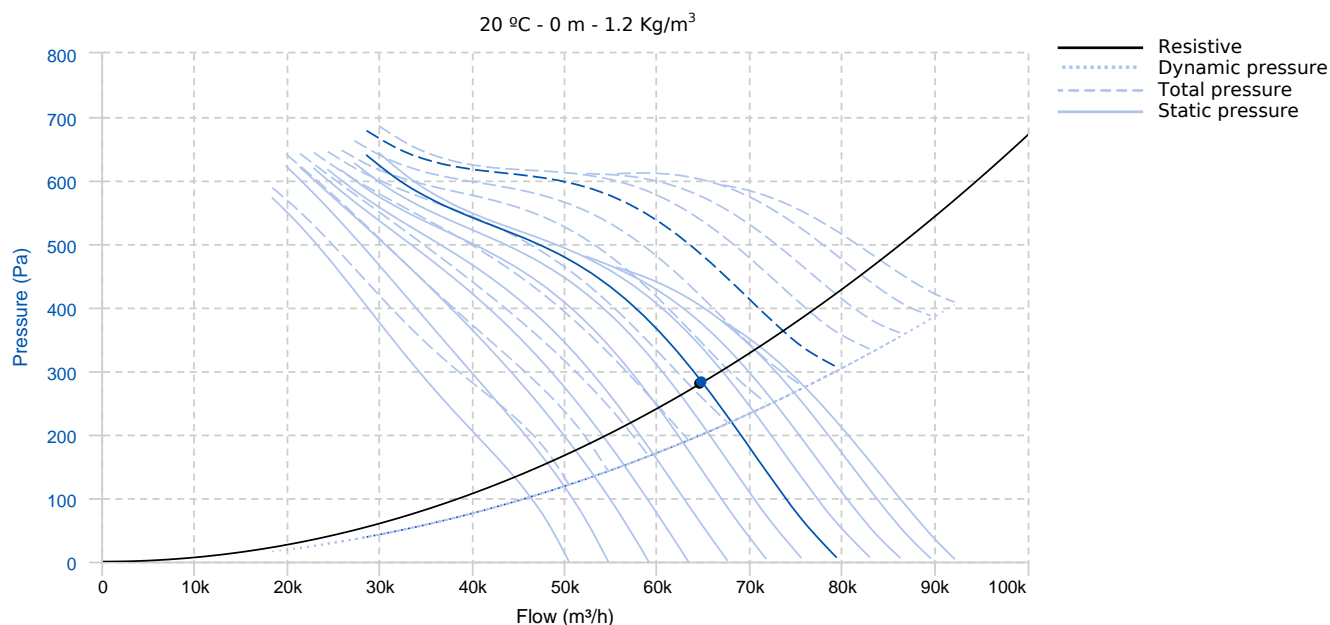
- Smoke emergency exhaust with motor inside the hazardous area.
- Maximum working temperature: 60°C.

UNDER REQUEST:

- Supply impeller (air direction from impeller to motor).
- 100% reversible impeller.

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015 Certification Nr: 0370-CPR-0912

## PERFORMANCE CURVE



### Design point

Flow (m³/h)	64550.38	Pressure (Pa)	279.73	Temp. max. (°C)	20
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## Service point

Angle	34	T.max (°C)	60	Q (m³/h)	64806.75	Ps (Pa)	281.96
Pd (Pa)	200.26	Pt (Pa)	482.21	Speed (m/s)	18.27	Security coefficient	1.56
Fan total efficiency	67.69	Mechanical total efficiency	73.03	Pabs (kW) 1.2 kg/m³	12.82	Pw.mec (kW)	11.89
Precom (kW)	18,5	SFP (W/l/s) 1.2 kg/m³	0.71				

## TECHNICAL DATA

### Fan

RPM	-	Approx. weight	339 kg	Max. Flow	92110 m³/h
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### Motor

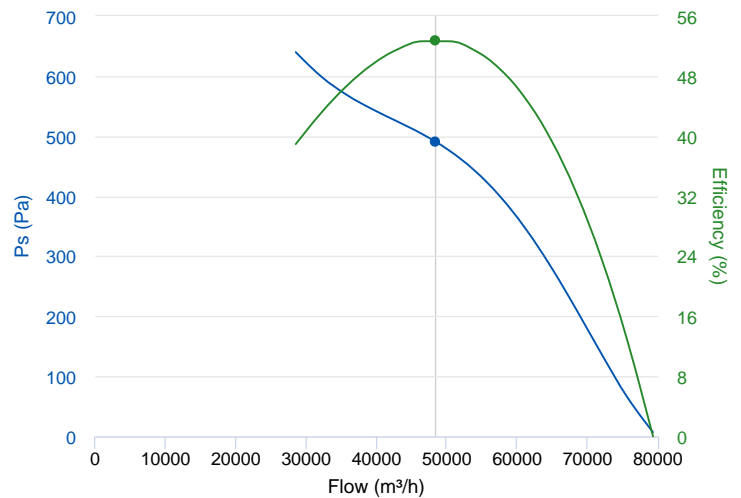
Power	18,5 kW	RPM	1465	I max. (400V)	35,1 A	I max. (690V)	20,3 A
Size	180L	Approx. weight	164 kg	Efficiency (%)	91.6 %	FP	0.83

## ERP DATA

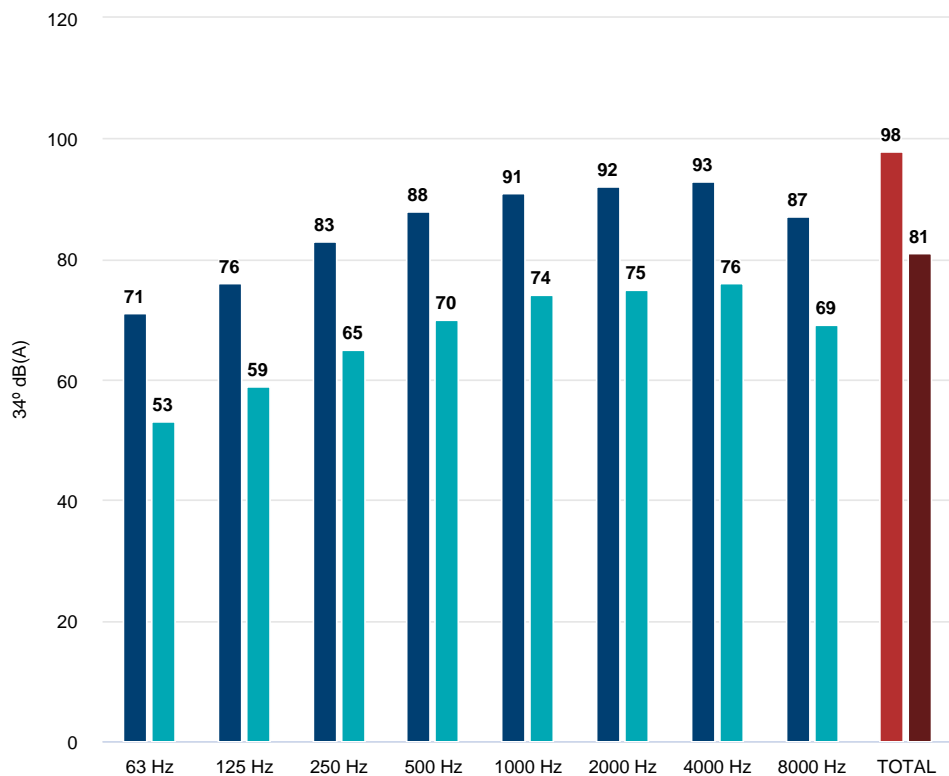
### Fan data sheet

Fan type	Axial fan
Installation category	A: Outlet and Inlet free discharge
Efficiency category	Static
The fan has to be installed with VF	No
Motor power (kW)	18.5

	Fan values	ERP Requirements 2015
Max. efficiency (%)	52.77	38.09
Efficiency grade (N)	52.69	38
Pabs (kW)	12.439	
Flow (m³/h)	48439.72	
Static pressure (Pa)	490.42	
Speed (m/s)		
Specific ratio	1.00	



## ACOUSTIC DATA (INLET)



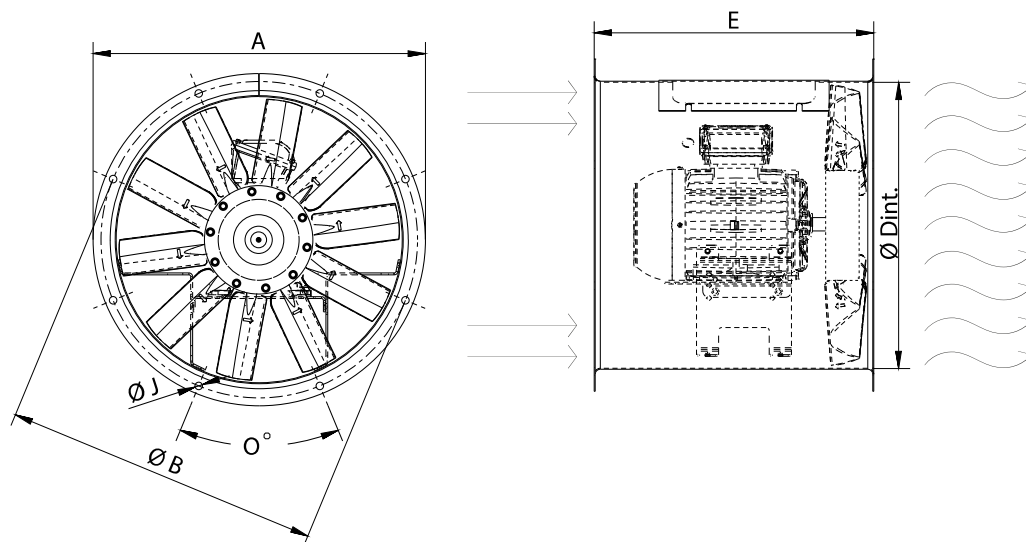
### Sound power

63 Hz	71
125 Hz	76
250 Hz	83
500 Hz	88
1000 Hz	91
2000 Hz	92
4000 Hz	93
8000 Hz	87
TOTAL	98

### Sound pressure 3m Q=2

63 Hz	53
125 Hz	59
250 Hz	65
500 Hz	70
1000 Hz	74
2000 Hz	75
4000 Hz	76
8000 Hz	69
TOTAL	81

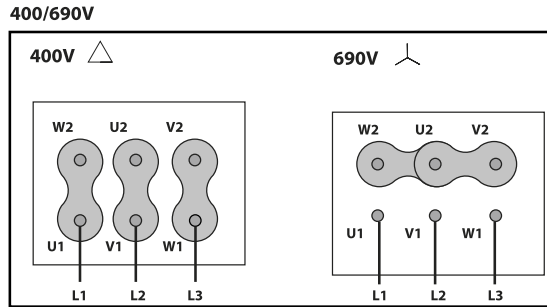
## DIMENSIONS



### Dimensions (mm)

E	1000	O	16x22,5 <sup>ø</sup>	ØA	1234	ØB	1190	ØD	1132
ØJ	12								

## WIRING DIAGRAM



## ACCESSORIES



**CASE FANS MOUNTING SUPPORT  
PO 112**  
REF: 960001664



**ANTI-VIBRATION JOINT  
JE 45**  
REF: A-300719201



**CIRCULAR SILENCER  
SIL-C 1120/1680**  
REF: 960112168



**CIRCULAR SILENCER  
SIL-CN 1120/1120**  
REF: 961112112



**CIRCULAR SILENCER  
SIL-CN 1120/2240**  
REF: 961112224



**CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE  
BAD 20 (Ø1120)**  
REF: 960003470



**FREQUENCY SPEED CONTROLLER  
SFC (GENERIC)**



**ANTI-VIBRATING FLANGE 400°/2H  
BA-400 112**  
REF: 960002063



**CIRCULAR SILENCER  
SIL-C 1120/1120**  
REF: 960112112



**CIRCULAR SILENCER  
SIL-C 1120/2240**  
REF: 960112224



**CIRCULAR SILENCER  
SIL-CN 1120/1680**  
REF: 961112168



**PROTECTION GUARD FOR LONG CASE FANS  
RP 112**  
REF: 960340105



**CONNECTION FLANGE  
AC 1120**  
REF: 960003221



**SAFETY SWITCH  
INT (GENERIC)**



**SAFETY SWITCH FOR 400°C/2h  
INT F400 (GENERIC)**



**ANTI-VIBRATION SPRING BLOCK  
AVS (GENERIC)**



**OVERPRESSURE DAMPER (VERTICAL  
POSITIONING)  
CMP-HLT 1250x1250  
REF: CMPHLT125125**