

Technical data of the fan: PFP A1-0450 2.9kW 400V-3F M6H7

fulfills the ErP requirements 2015

Description	Value	Dimension
Installation acc. DIN 24163 Part 1		A
Reference density (Rho1)	1.20	kg/m ³
Medium temperature (t)	20	C
Air flow rate (V)	9239	m ³ /h
Total pressure rise (dp _t)	404	Pa
Dynamic pressure at discharge (pd ₂)	82	Pa
Static pressure rise (dp _{fa})	322	Pa
Possible increase to max. speed (f _R)	6	%
Fan speed (n _v)	1924	min ⁻¹
Absorbed power of fan system (P _{1s})	2.04	kW
max. current at n _v : Inverter out resp. control unit in (I)	3.8	A
System efficiency (ETA _{faS}) (over all efficiency of fan (static), motor, and inverter/Controller)	41	%
Specific Fan Power (SFP-factor)	793	W/(m ³ /s)
Nozzle calibration factor (K ₁₀)	169	m ² /s/h
Differential pressure on nozzle (dp _D)	1793	Pa
Velocity at discharge area (c)	11.7	m/s
Fan weight	17	kg
A-weighted sound power level discharge/intake LwA _{6/5}	93/89	dB
Unweighted octave sound power level		Octave mid frequencies ¹⁾ 63/125/250/500/1k/2k/4k/8k Hz 82/82/94/88/88/85/82/75 dB discharge LwOkt ₆ 82/85/93/85/82/78/74/69 dB intake LwOkt ₅

¹⁾ The octave sound power levels can be higher at octave bands at or close to blade passing frequency.

Feed data

Main's frequency (f _N)	50/60 Hz
Voltage (U _N)	3~ 400 V

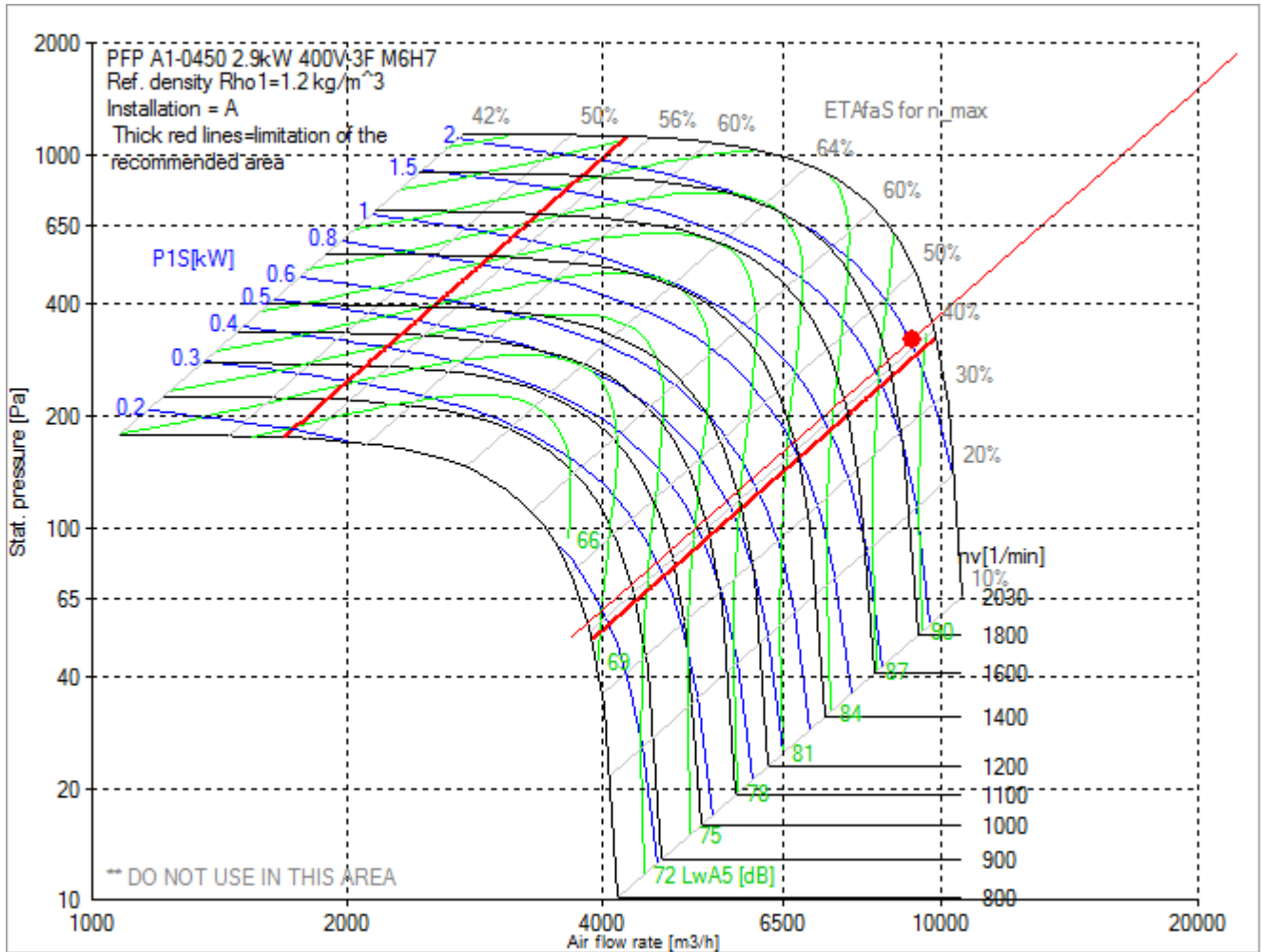
operational limits

Max. fan speed (n _{vmax})	2030 min ⁻¹
Max. absorbed power of the system (P _{maxS})	2.90 kW
max. current: Inverter out resp. control unit in (I _{max})	4.5 A
Temperature range for conveying medium (t _{min} ... t _{max})	-20...40 C

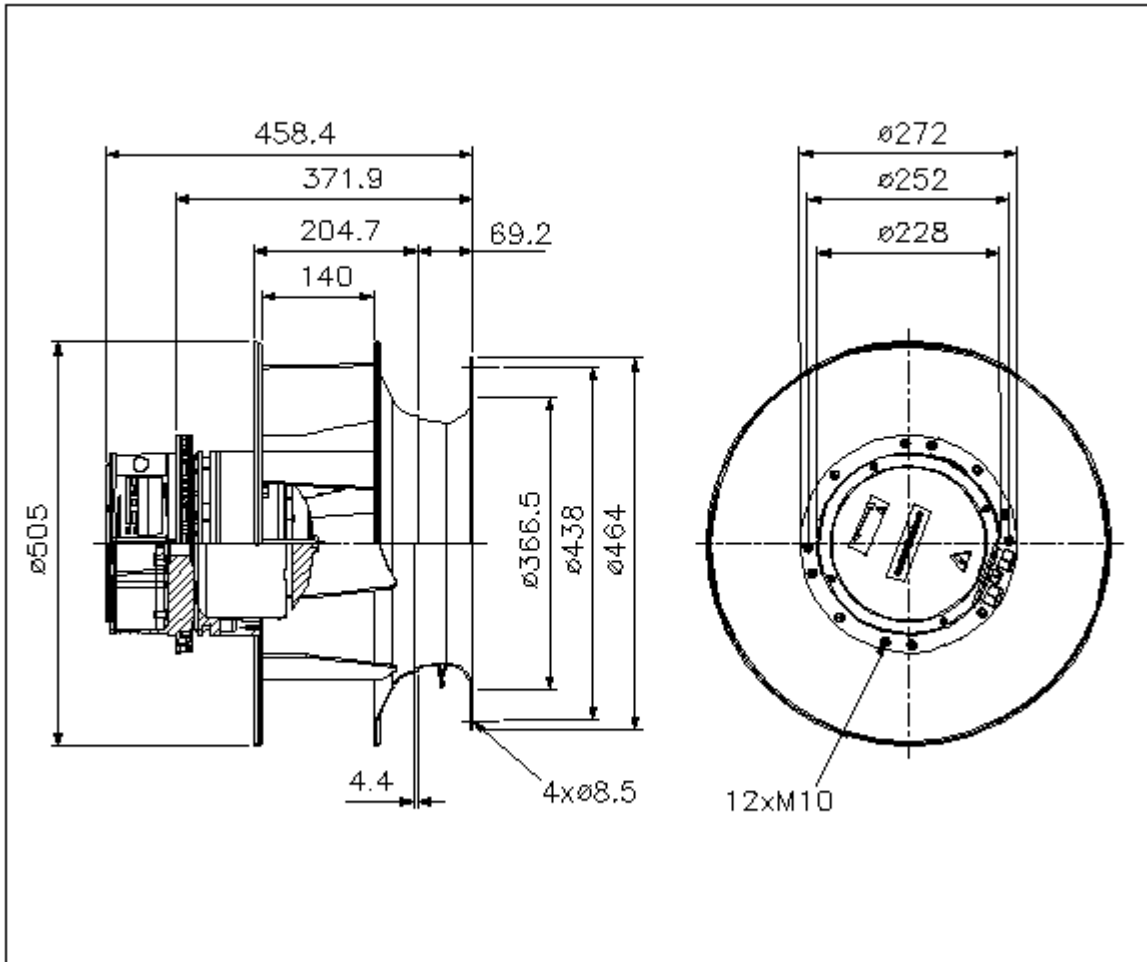
ErP-Data at best efficiency and density 1.20 kg/m³

measurement- / efficiency category	A / static
design status of VSD	VSD is integrated
overall efficiency (ETA _{opt})	66.9 %
achieved efficiency grade (N _{ist})	72.6
required efficiency grade in 2013 / 2015 (N)	58 / 62
Air flow rate (V _{opt})	7083 m ³ /h
pressure rise (dp _{opt})	924 Pa
Fan speed (n _{vopt})	2030 min ⁻¹
motor power input (P _{1opt})	2.72 kW
specific ratio (d _{dpopt})	1.009

Fan curve to PFP A1-0450 2.9kW 400V-3F M6H7



Dimensions to PFP A1-0450 2.9kW 400V-3F M6H7



Rotation: RD
Handing: 90

