

Specification of: TEM 01-0280-43-13-J

High performance centrifugal fan Nicotra Gebhardt silentvent with external PREMIUM EFFICIENCY motor in efficiency class IE3 (IEC 60034-30)

Single inlet with direct drive. Lap-jointed scroll housing made from galvanized steel sheet, without pedestal for vertical or horizontal mounting. Galvanized impeller with forward curved blades Motor B5, mounted outside the airstream. Impeller and shaft statically and dynamically balanced in accordance with DIN ISO 21940-11, completely maintenance free. The motor is equipped with PTC Thermistors as a standard. Three phase 400 V, 50 Hz, single speed.

Technical data of the fan: TEM 01-0280-43-13-J

fulfills the ErP requirements 2015

Description	Value Dimension
Specified duty point	
Actual duty point	
Installation acc. DIN 24163 Part 1	A
Reference density (ρ_{ref})	1.20 kg/m ³
Medium temperature (t)	20 °C
Fan weight	22 kg
Rated data	
Phases-Voltage-Frequency	3~230/400-50 V-Hz
Frame size-poles:	90S / IE3-4
Motor rating (P_N)	1.1 kW
Rated motor speed (n_N)	1425 min ⁻¹
Rated motor current (I_N)	4,2/2,42 A
operational limits	
Temperature range of conveying medium ($t_{min} \dots t_{max}$)	-20...60 °C
ErP-Data at best efficiency and density - kg/m³	
measurement- / efficiency category	B / total
design status of VSD	without VSD
overall efficiency (η_{opt})	46.5 %
achieved efficiency grade (N_{ist})	52.7
required efficiency grade N in 2015 / 2026	49 / 57
Air flow rate (V_{opt})	2650 m ³ /h
pressure rise (dp_{opt})	675 Pa
Fan speed (n_{vopt})	1480 min ⁻¹
motor power input (P_{1opt})	1.07 kW
specific ratio (d_{dpopt})	1.007

Fan curve to TEM 01-0280-43-13-J



