

Order line: 20

Customer item: 0

**Specification of: RDP E0-0500 5.7kW 400V-3F M6L6**

**High performance centrifugal fan RDP**

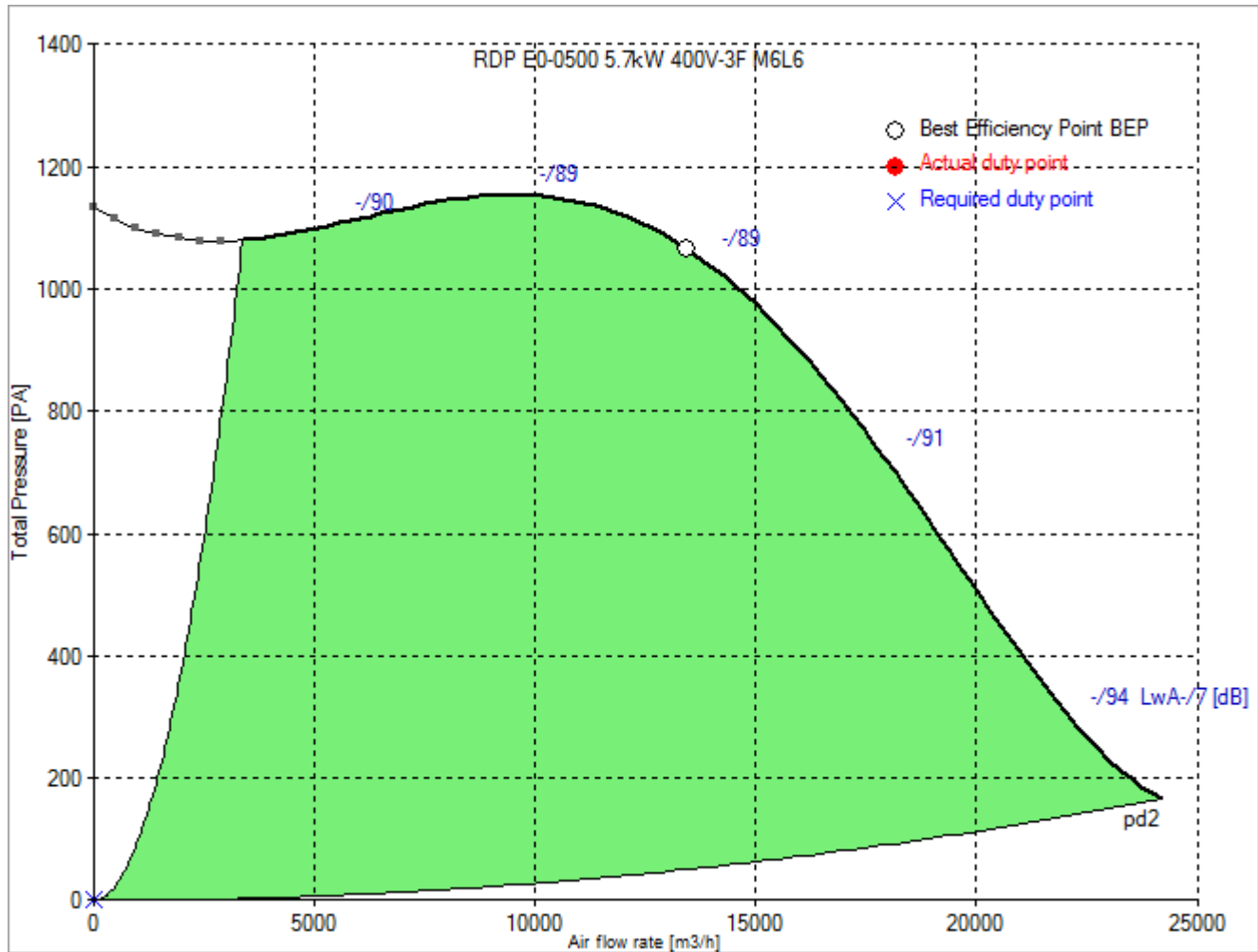
Double width, double inlet (DWDI), direct drive. Lap-jointed scroll made of galvanized steel (EN 10142), assembled through a standing cold-rolled seam. V-shaped cut-off at fan discharge. Centrifugal impeller with 11 backward inclined blades, welded, made of aluminium, directly mounted on a permanent magnet motor with external rotor, without transmission losses. Dynamically balanced according to DIN ISO 21940-11. Highly efficient 5.5 kW three-phase sensorless driver, with passive EMC filtering and automatic protection against overheating. Driver directly installed on the scroll, and factory-configured, for a plug and play solution: no further configuration is needed. Continuous speed control of the Drive System by 0 ... 10 V analogue signal, or with Modbus RS485-compliant interface. All the drive system is completely in protection class IP 54. Power source 400V – 50/60 Hz. Maintenance free! Air performance ratings according to AMCA 210-07 (Fig. 12) and ISO 5801 (Fig. 69 c and par. 30.2 f).

**Technical data of the fan: RDP E0-0500 5.7kW 400V-3F M6L6**

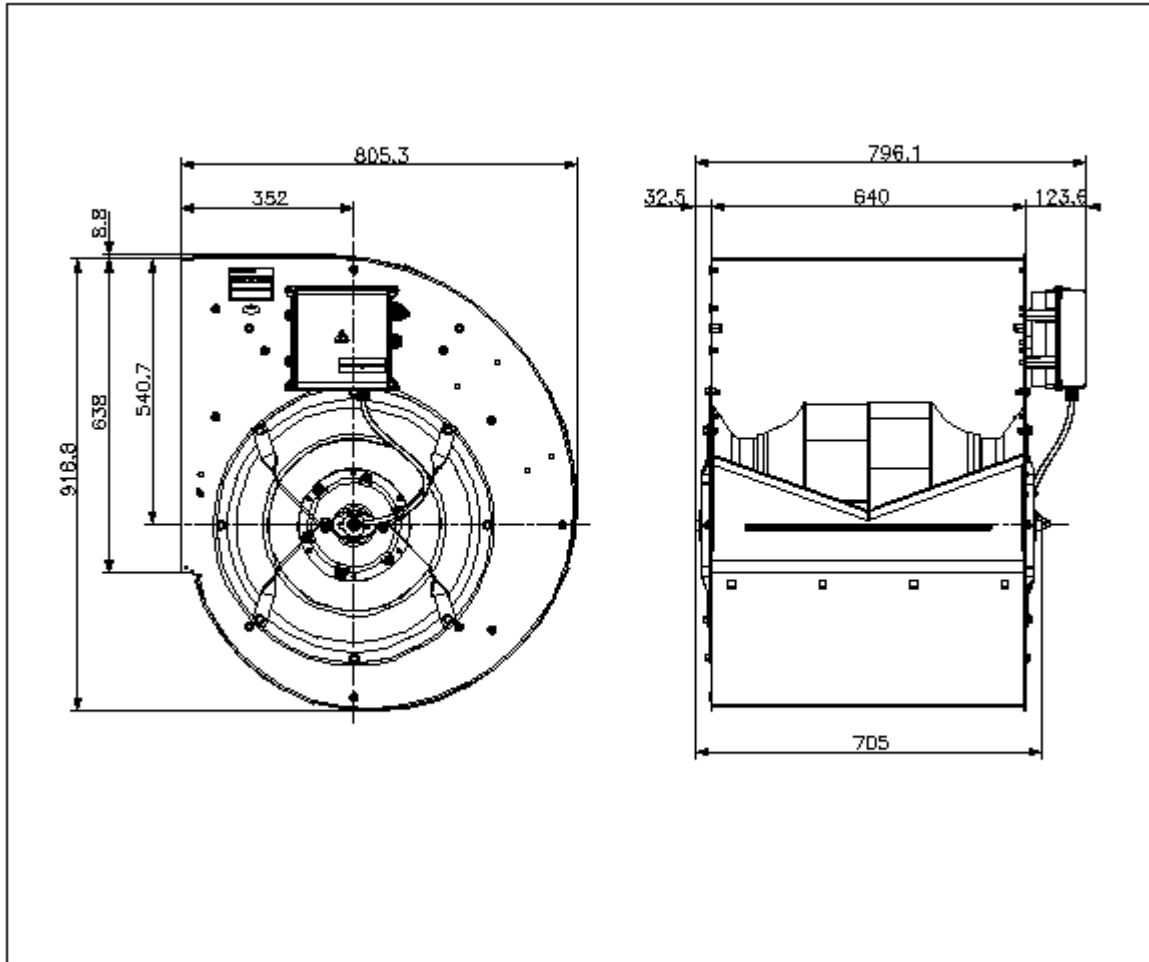
fulfills the ErP requirements 2015

Description	Value Dimension
<b>Specified duty point</b>	
<b>Actual duty point</b>	
Installation acc. DIN 24163 Part 1	B
Reference density (Rho1)	1.20 kg/m <sup>3</sup>
Medium temperature (t)	20 C
Fan weight	61 kg
This duty point can only be reached by using an inverter/controller for motor speed control!	
<b>Rated data</b>	
Phases-Voltage-Frequency	3~400-50/60 V-Hz
Rated motor speed (n <sub>N</sub> )	1660 min <sup>-1</sup>
Rated motor current (I <sub>N</sub> )	8,8 A
<b>operational limits</b>	
Max. absorbed power (P <sub>1max</sub> )	5.7 kW
Temperature range of conveying medium (t <sub>min</sub> ...t <sub>max</sub> )	-20...40 C
<b>ErP-Data at best efficiency and density - kg/m<sup>3</sup></b>	
measurement- / efficiency category	B / total
design status of VSD	VSD is integrated
overall efficiency (ETA <sub>opt</sub> )	73.0 %
achieved efficiency grade (N <sub>ist</sub> )	75.6
required efficiency grade in 2013 / 2015 (N)	61 / 64
Air flow rate (V <sub>opt</sub> )	13453 m <sup>3</sup> /h
pressure rise (dp <sub>opt</sub> )	1078 Pa
Fan speed (n <sub>vopt</sub> )	1651 min <sup>-1</sup>
motor power input (P <sub>1opt</sub> )	5.52 kW
specific ratio (d <sub>dpopt</sub> )	1.011

Fan curve to RDP E0-0500 5.7kW 400V-3F M6L6



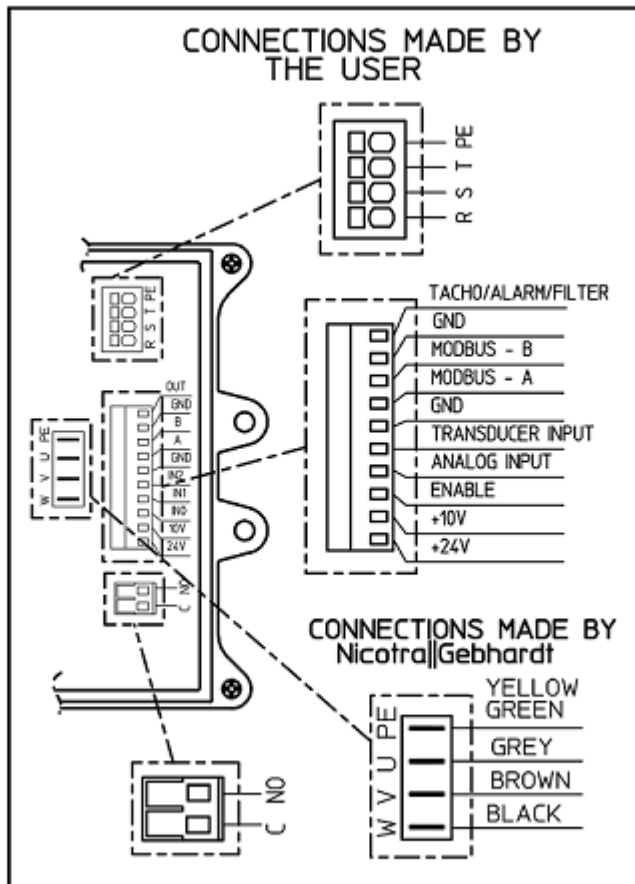
Dimensions to RDP E0-0500 5.7kW 400V-3F M6L6



Rotation: RD

Handing: 90

Wiring diagram of the fan RDP E0-0500 5.7kW 400V-3F M6L6



7-06-2021 7Y

Wiring diagram for connection to: [mains - VSD - motor](#)

Rotation: [LG](#)