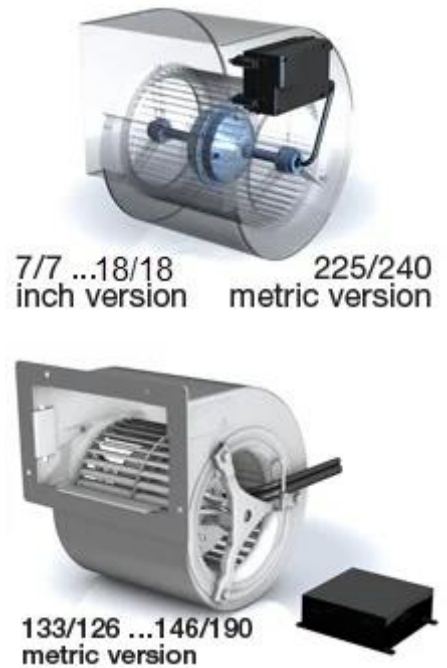


**Specification of: DDMP 12/9 M6A4 DG0 400V-3F**

**High performance centrifugal fan DDMP**

Double width, double inlet (DWDI), direct drive, forward curved blades fan. Lap-jointed scroll made of galvanized steel (EN 10142), assembled through a high-technology roller-locked seaming. Straight cut off plate at fan discharge. Impeller with forward curved blades of galvanized steel plate, directly mounted on a brushless, permanent magnets, external rotor motor, without transmission losses, dynamically balanced according to DIN ISO 21940-11. Highly-efficient 2,6kW three-phase driver sensor-less algorithm with passive EMI filters and thermal derating protection. 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. Air performance ratings according to AMCA 210-07 (Fig. 12) and ISO 5801:1997 (Fig. 69 c and par. 30.2 f).

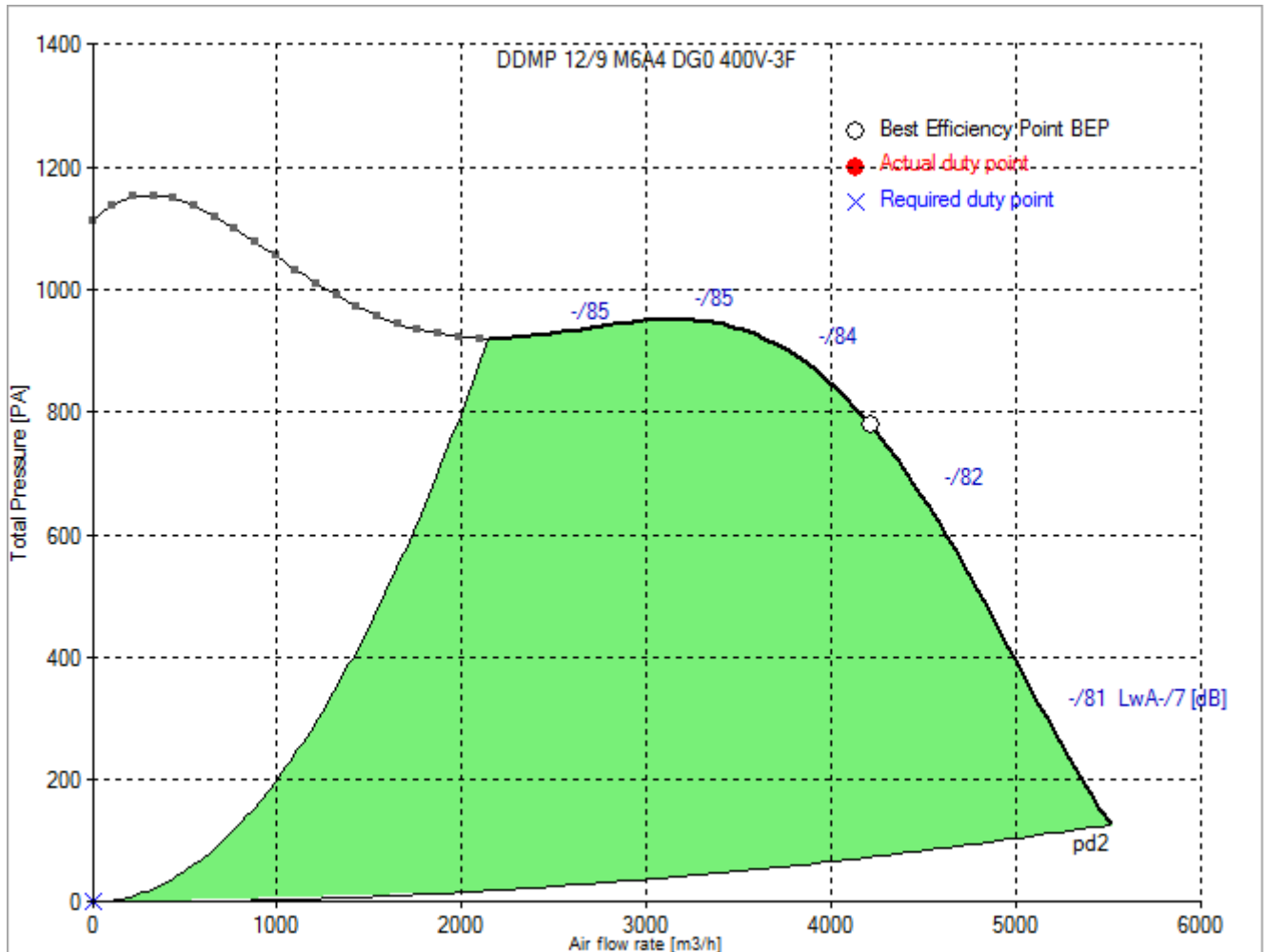


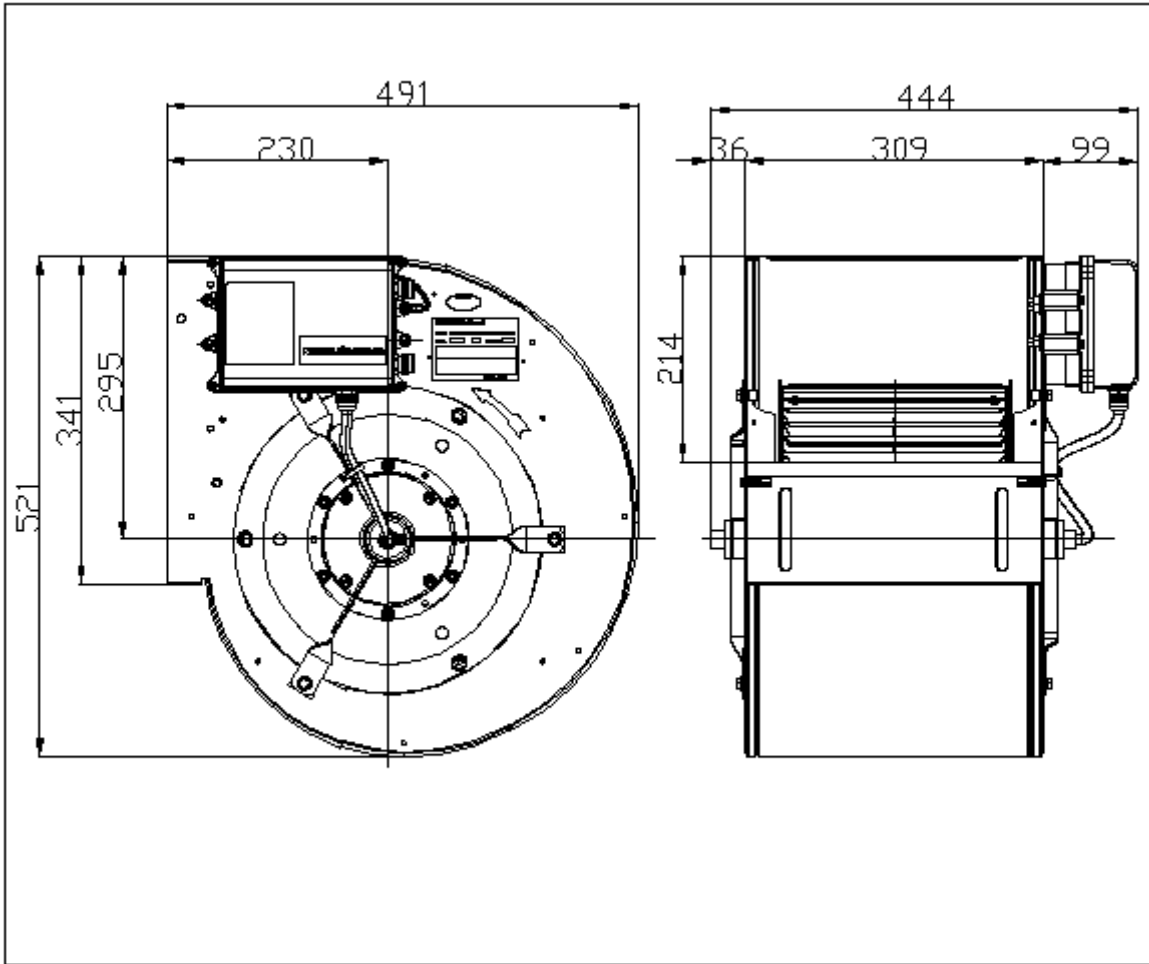
**Technical data of the fan: DDMP 12/9 M6A4 DG0 400V-3F**

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  | 19 kg                  |
| <small>This duty point can only be reached by using an inverter/controller for motor speed control!</small> |                        |
| <b>Rated data</b>   |                        |
| Phases-Voltage-Frequency  | 3~400-50/60 V-Hz       |
| Rated motor current (I <sub>N</sub> )   | N/A A                  |
| <b>operational limits</b>   |                        |
| Max. absorbed power (P <sub>1max</sub> )  | 1.842 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> )  | 61.3 %                 |
| achieved efficiency grade (N <sub>ist</sub> )   | 66.4                   |
| required efficiency grade in 2013 / 2015 (N)  | 42 / 49                |
| Air flow rate (V <sub>opt</sub> )   | 4216 m <sup>3</sup> /h |
| pressure rise (dp <sub>opt</sub> )  | 779 Pa                 |
| Fan speed (n <sub>vopt</sub> )  | 1334 min <sup>-1</sup> |
| motor power input (P <sub>1opt</sub> )  | 1.48 kW                |
| specific ratio (d <sub>dpop</sub> )   | 1.008                  |

## Fan curve to DDMP 12/9 M6A4 DG0 400V-3F

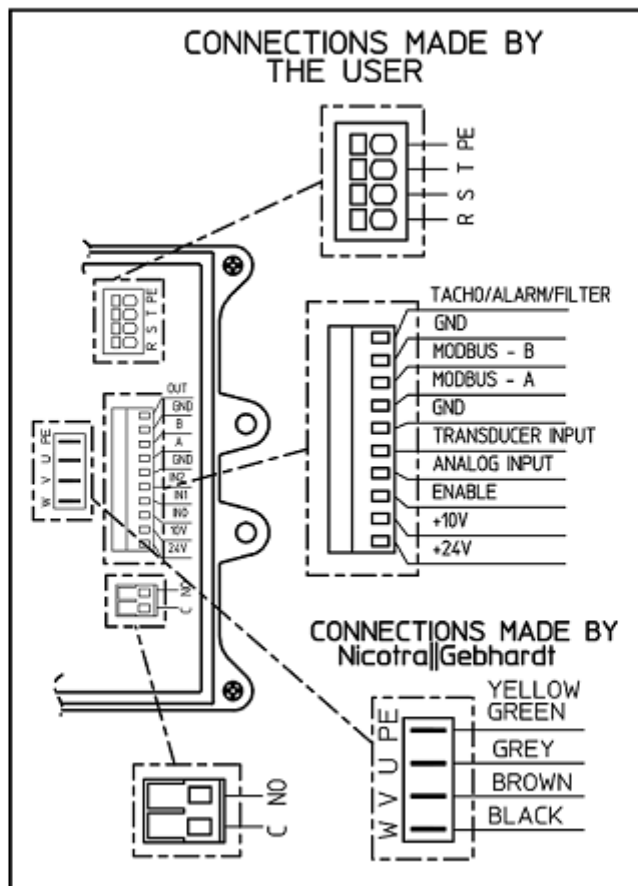




Rotation:  
Handing:

RD  
90

## Wiring diagram of the fan DDMP 12/9 M6A4 DG0 400V-3F



7-06-2021 7Y

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