

Specification of: DDMP 18/13 M6M3 DG7 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 5,5kW three-phase sensor-less driver, with advanced control algorithm, 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).

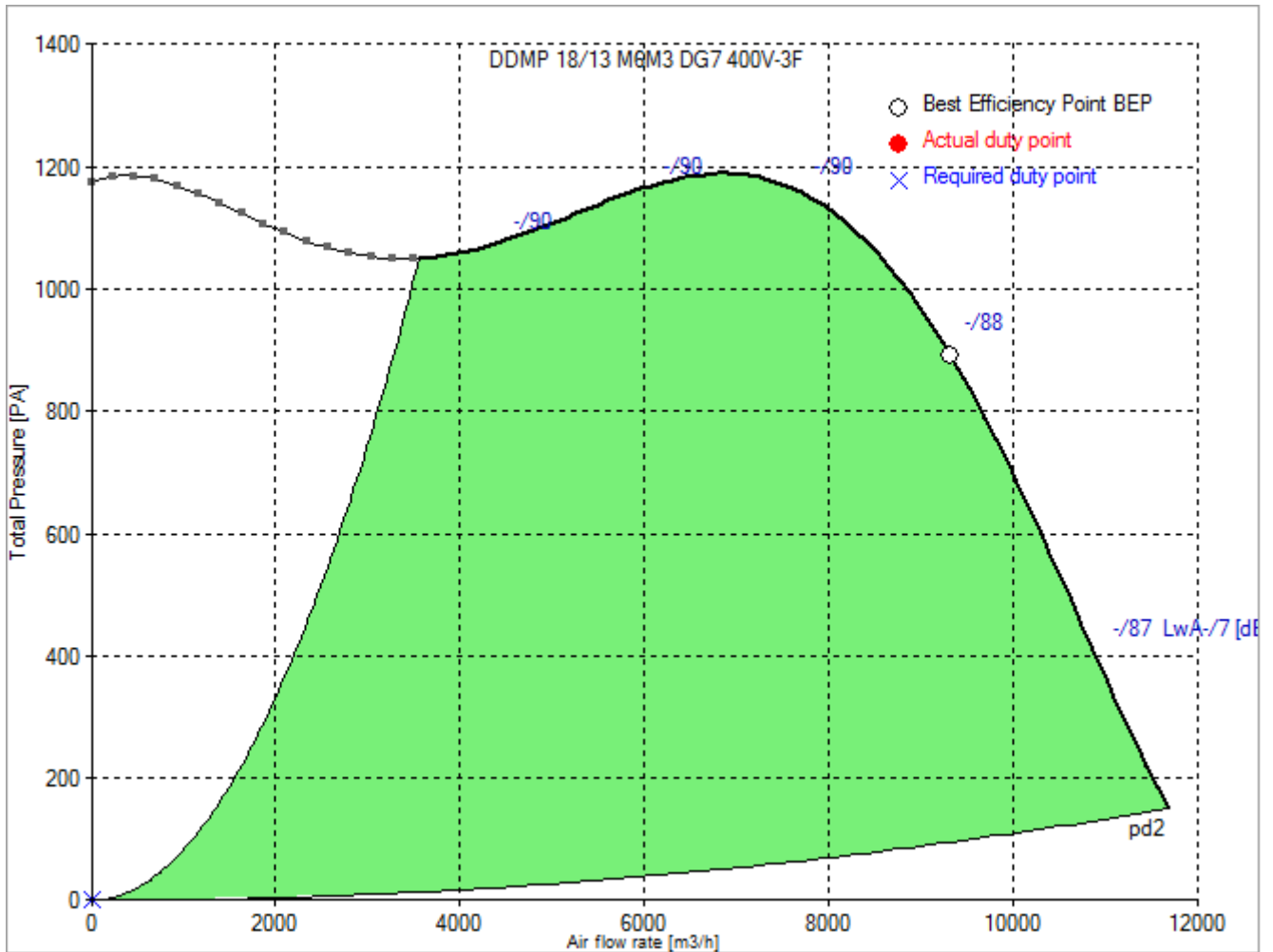


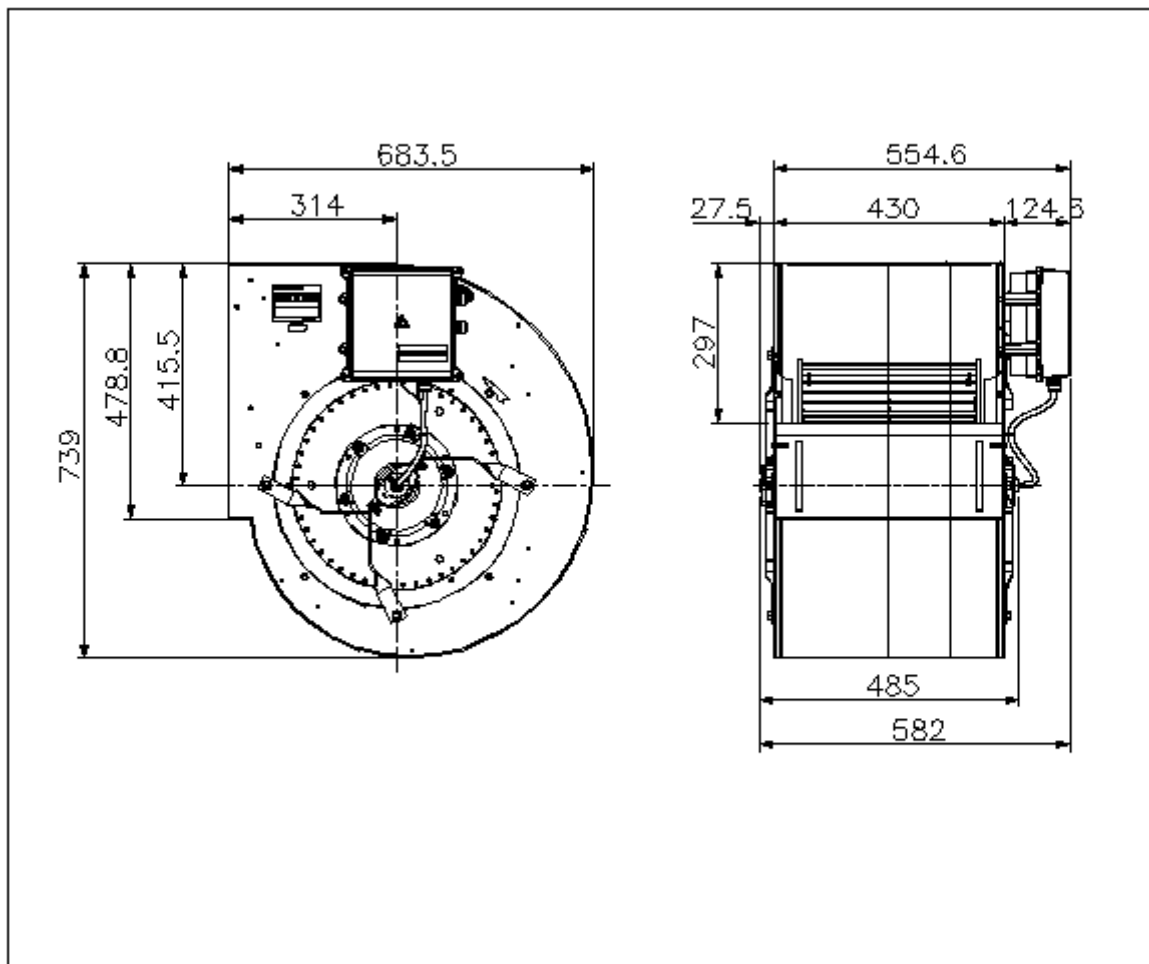
Technical data of the fan: DDMP 18/13 M6M3 DG7 400V-3F

fulfills the ErP requirements 2015

| Description | Value Dimension |
|---|------------------------|
| Specified duty point | |
| Actual duty point | |
| Installation acc. DIN 24163 Part 1 | B |
| Reference density (Rho1) | 1.20 kg/m ³ |
| Medium temperature (t) | 20 C |
| Fan weight | 44 kg |
| <small>This duty point can only be reached by using an inverter/controller for motor speed control!</small> | |
| Rated data | |
| Phases-Voltage-Frequency | 3~400-50/60 V-Hz |
| Rated motor speed (n _N) | 1200 min ⁻¹ |
| Rated motor current (I _N) | 6,9 A |
| operational limits | |
| Max. absorbed power (P _{1max}) | 4.45 kW |
| Temperature range of conveying medium (t _{min} ...t _{max}) | -20...40 C |
| ErP-Data at best efficiency and density - kg/m³ | |
| measurement- / efficiency category | B / total |
| design status of VSD | VSD is integrated |
| overall efficiency (ETA _{opt}) | 65.9 % |
| achieved efficiency grade (N _{is}) | 68.6 |
| required efficiency grade in 2013 / 2015 (N) | 42 / 49 |
| Air flow rate (V _{opt}) | 9334 m ³ /h |
| pressure rise (dp _{opt}) | 899 Pa |
| Fan speed (n _{vopt}) | 978 min ⁻¹ |
| motor power input (P _{1opt}) | 3.54 kW |
| specific ratio (d _{dpopt}) | 1.009 |

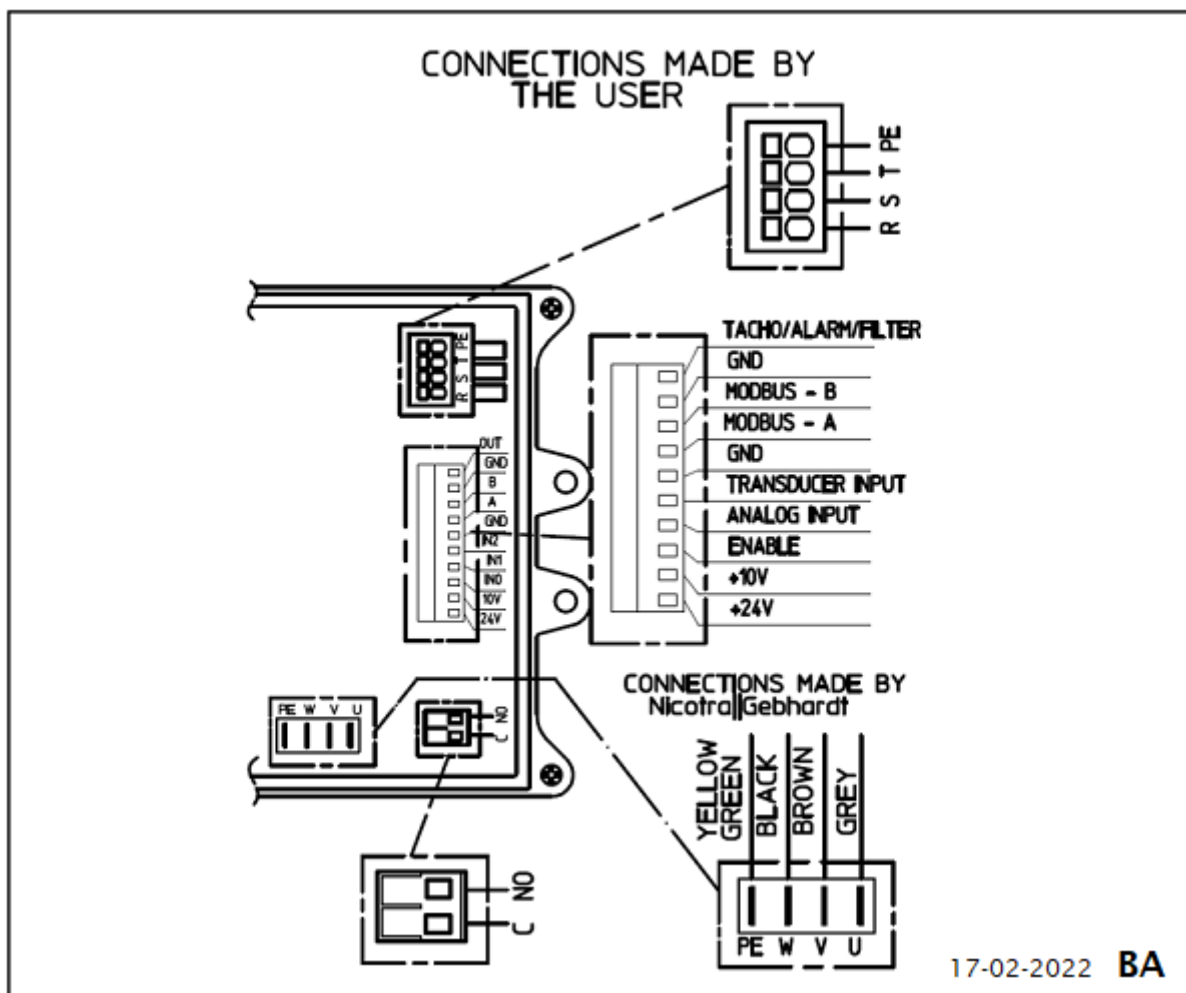
Fan curve to DDMP 18/13 M6M3 DG7 400V-3F





Rotation: RD
Handing: 90

Wiring diagram of the fan DDMP 18/13 M6M3 DG7 400V-3F



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