

## Specification of: DDM 9/9 E6G3501 1F 4P 1V +SCT == 6N02H5

### High performance centrifugal fan DDM

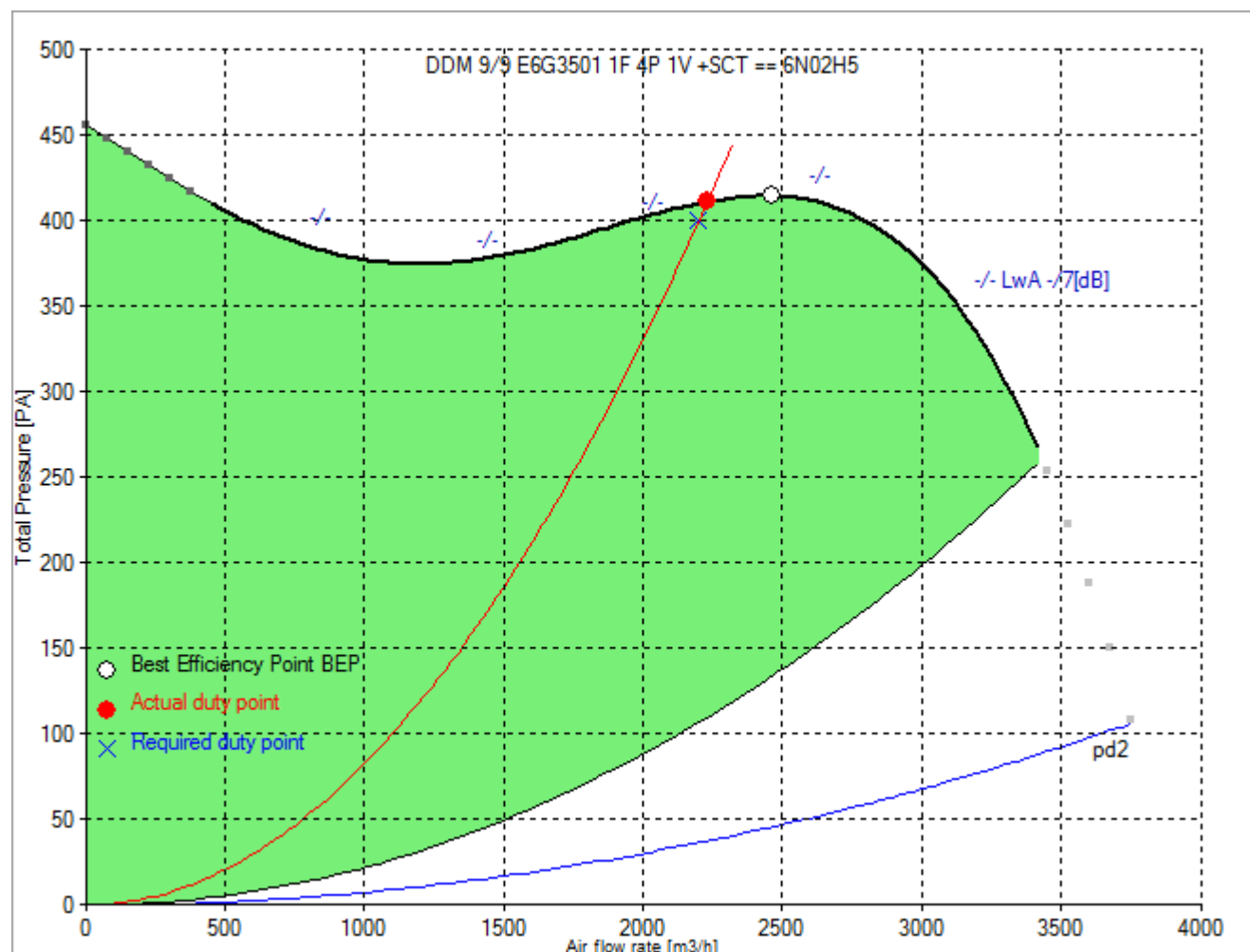
Double width, double inlet (DWDI), direct drive, forward curved blades fan. Lap-jointed scroll made of galvanized steel (EN 10142), assembled through a high-technology roller-locked seaming. Straight cut off plate at fan discharge. Impeller with forward curved blades of galvanized steel plate, directly mounted on a "External Rotor" motor for no transmission losses. Closed (IP 55) frame, single-phase, voltage controllable motor, usable at 230 V, 50 Hz. With built-in thermal protection device. Maintenance free, integral vibration isolators, self aligning ball bearings. Dynamically balanced according to DIN ISO 21940-11. With mounted terminal box. Air performance ratings according to AMCA 210-99 (Fig. 12), UNI 10531 (Fig 30c and par. 29.2 f) and ISO 5801 (Fig. 69 c and par. 30.2 f).

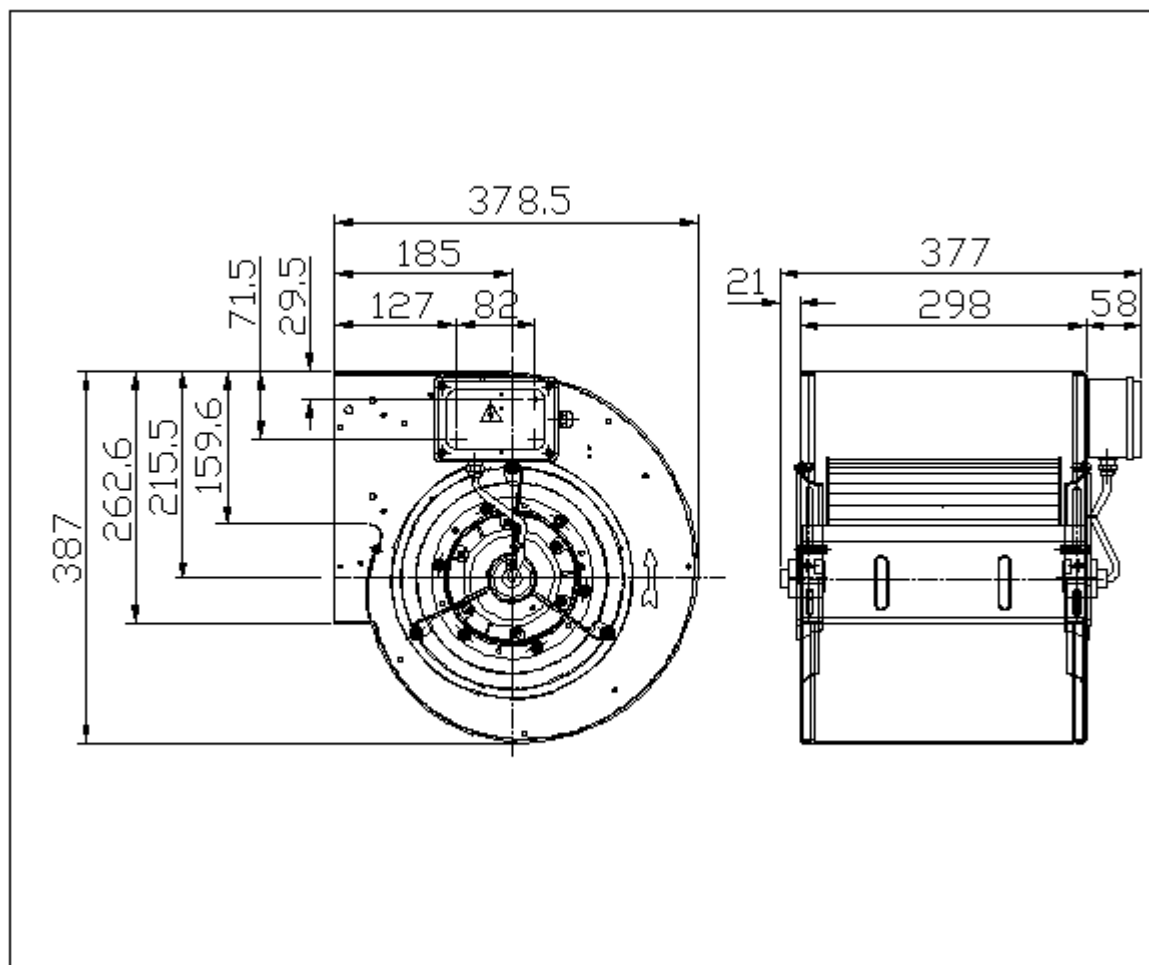
### Technical data of the fan: DDM 9/9 E6G3501 1F 4P 1V +SCT == 6N02H5

[fulfills the ErP requirements 2015](#)

| Description                                                                    | Value Dimension        |
|--------------------------------------------------------------------------------|------------------------|
| <b>Specified duty point</b>                                                    |                        |
| Air flow rate (V)                                                              | 2200 m³/h              |
| Total pressure rise                                                            | 400 Pa                 |
| <b>Actual duty point</b>                                                       |                        |
| Installation acc. DIN 24163 Part 1                                             | B                      |
| Reference density (Rho1)                                                       | 1.20 kg/m³             |
| Medium temperature (t)                                                         | 20 C                   |
| Air flow rate (V)                                                              | 2232 m³/h              |
| Total pressure rise (dp <sub>t</sub> )                                         | 412 Pa                 |
| Dynamic pressure at discharge (pd <sub>2</sub> )                               | 38 Pa                  |
| Static pressure increase (dp <sub>fa</sub> )                                   | 374 Pa                 |
| Velocity at discharge area (c)                                                 | 7.9 m/s                |
| Fan weight                                                                     | 17 kg                  |
| <b>Rated data</b>                                                              |                        |
| Phases-Voltage-Frequency                                                       | 1~230-50 V-Hz          |
| Number of poles:                                                               | 4                      |
| Motor rating (P <sub>N</sub> )                                                 | 0.55 kW                |
| Rated motor speed (n <sub>N</sub> )                                            | 1290 min <sup>-1</sup> |
| Rated motor current (I <sub>N</sub> )                                          | 4,7 A                  |
| Capacitor (C)                                                                  | 12,5 µF                |
| <b>operational limits</b>                                                      |                        |
| Max. absorbed power (P <sub>1max</sub> )                                       | 1.1 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 1.20 kg/m³</b>                      |                        |
| measurement- / efficiency category                                             | B / total              |
| design status of VSD                                                           | without VSD            |
| overall efficiency (ETA <sub>opt</sub> )                                       | 41.3 %                 |
| achieved efficiency grade (N <sub>ist</sub> )                                  | 49.0                   |
| required efficiency grade in 2013 / 2015 (N)                                   | 42 / 49                |
| Air flow rate (V <sub>opt</sub> )                                              | 2192 m³/h              |
| pressure rise (dp <sub>opt</sub> )                                             | 411 Pa                 |
| Fan speed (n <sub>vopt</sub> )                                                 | 1370 min <sup>-1</sup> |
| motor power input (P <sub>1opt</sub> )                                         | 0.604 kW               |
| specific ratio (d <sub>dpopt</sub> )                                           | 1.004                  |

Fan curve to DDM 9/9 E6G3501 1F 4P 1V +SCT == 6N02H5

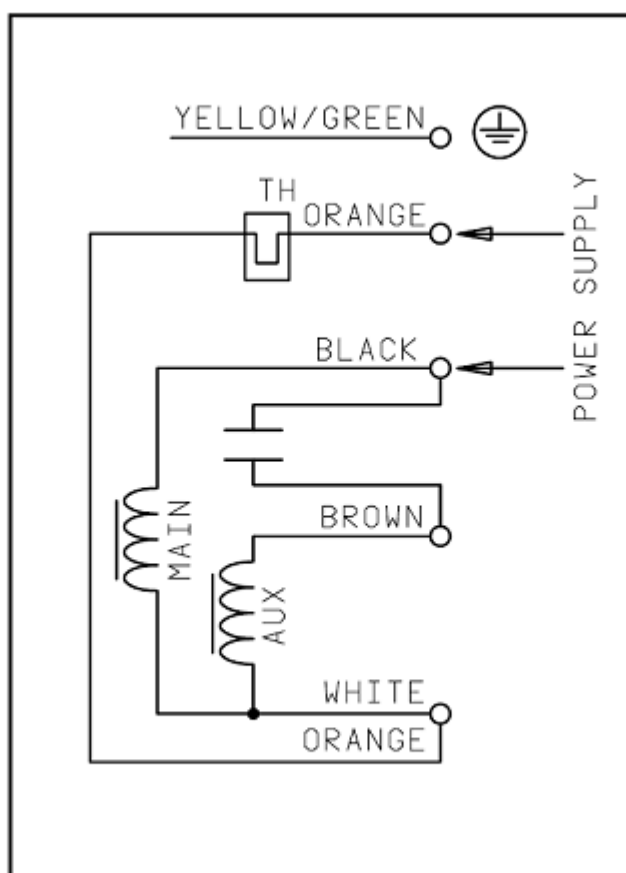




Rotation:  
Handing:

RD  
90

## Wiring diagram of the fan DDM 9/9 E6G3501 1F 4P 1V +SCT == 6N02H5



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