

Max. 680 m³/h

DC diagonal fan

172 x 160 x 51 mm



- **Material:** Housing: Die-cast aluminum
Impeller: GRP¹⁾ (PA)
 - **Direction of air flow:** Exhaust over struts
 - **Direction of rotation:** Counterclockwise, looking towards rotor
 - **Connection:** Via single wires AWG 22, TR 64
 - **Highlights:** 3-phase fan drive with very smooth operation and high efficiency. Housing with grounding lug for screw M4 x 8 (Torx)
 - **Weight:** 820 g
- **Possible special versions:** (See chapter DC fans - specials)
 - Speed signal
 - Go / NoGo alarm
 - Alarm with speed limit
 - External temperature sensor
 - Internal temperature sensor
 - PWM control input
 - Analog control input
 - Moisture protection
 - Salt spray protection
 - Degree of protection: IP 54
 - Reversible direction of rotation

1) Fiberglass-reinforced plastic

Series DV 6400 TD TURBOFAN

Nominal data

| | Air flow | Air flow | Nominal voltage | Voltage range | Sound pressure level | Sound power level | Sinter sleeve bearings Ball bearings | Power consumption* | Nominal speed | Temperature range | Service life L ₁₀ (40 °C) ebm-papst standard | Service life L ₁₀ (T _{max}) ebm-papst standard | Life expectancy L ₁₀ IPC (40 °C) see page 17 | Curve |
|-----------------|-------------------|----------|-----------------|---------------|----------------------|-------------------|---|--------------------|-------------------|-------------------|--|--|--|-------|
| Type | m ³ /h | cfm | VDC | VDC | dB(A) | Bel(A) | ■ / ■ | Watts | rpm ⁻¹ | °C | Hours | Hours | Hours | |
| DV 6424 TD | 680 | 400 | 24 | 16...28 | 71 | 7.9 | ■ | 91 | 5 500 | -20...+60 | 65 000 / 40 000 | 110 000 | 110 000 | ② |
| Min ▼ Max | 100 | 59 | 24 | 16...28 | 29 | — | ■ | 2 | 800 | -20...+60 | 65 000 / 40 000 | 110 000 | 110 000 | ① |
| | 680 | 400 | | | 71 | 7.9 | | 91 | 5 500 | | | | | ② |
| Min ▼ Max | 100 | 59 | 48 | 40...55 | 29 | — | ■ | 2 | 800 | -20...+60 | 65 000 / 40 000 | 110 000 | 110 000 | ① |
| | 680 | 400 | | | 71 | 7.9 | | 86 | 5 500 | | | | | ② |

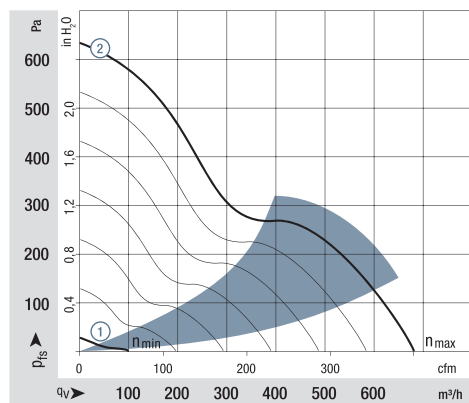
Subject to change

Models DV 6424 TD... and DV 6448 TD... are available in customer-specific, custom-developed variants only.

The figures indicated are technically feasible benchmark values. The fans can be specially adapted to your application with signal outputs and control inputs.

For details of the technical possibilities, refer to the chapters on the sensor signal, alarm signal and control inputs beginning on page 165.

* Power consumption at free air flow. These values can be significantly higher in the operating point.



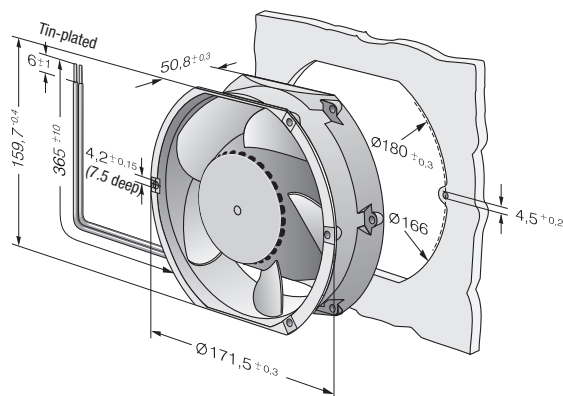
Air performance measured according to: ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level L_{WA} ISO 103002 measured on a hemisphere with a radius of 2 m.
Sound pressure level L_{PA} measured at 1 m distance from fan axis.

The values given are applicable only under the specified measuring conditions and may differ depending on the installation conditions.

In the event of deviation from the standard configuration, the parameters must be checked after installation!

For detailed information see

<http://www.ebmpapst.com/general conditions>



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[DV6424/2TDP-815](#) [DV6448/2TDP-833](#) [DV6424TD-844](#)