

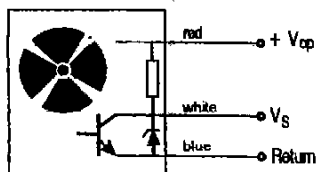
## DV6224/12 DC Mixed Flow Fan

Mixed flow fan with electronically commutated external rotor DC drive. Drive electronics is completely integrated into the fan hub. The aluminium die-cast housing and plastic impeller are aerodynamically dimensioned for optimum air flow characteristics at minimum noise. The air flow and noise level can be controlled by varying the supply voltage.

### Features

- Electronic motor current limiting during start-up or blocking. Continuous blocking protection. Electronically safeguarded against incorrect polarity.
- Extremely low EMI.
- Versions with different nominal voltages and/or various alarm or tach-out systems available on request.
- Square wave sensor signal for speed monitoring (2 pulses per revolution).

### Tacho-Signal



| Output                                              | 2 pulses/revolution  |
|-----------------------------------------------------|----------------------|
| $V_S$ high at $I_{source} = 2 \text{ mA}$           | 4.5...5.25 V         |
| $V_S$ low at $I_{sink \text{ max}} = 12 \text{ mA}$ | $\leq 0.8 \text{ V}$ |
| $I_{sink \text{ max}}$                              | 12 mA                |

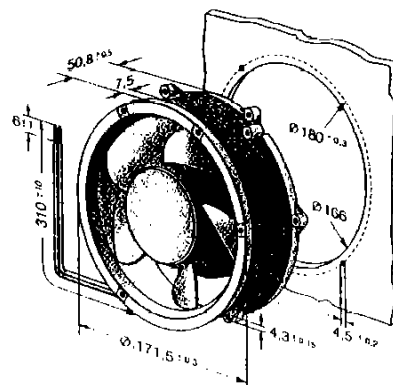
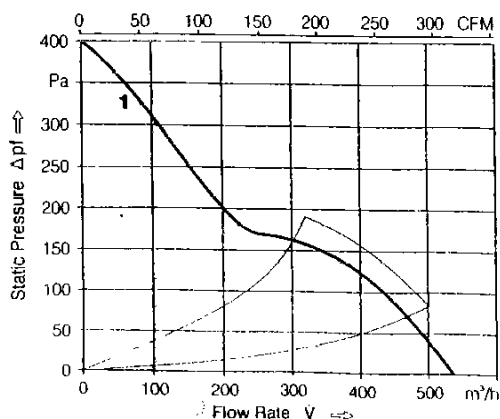
### General Data

|                                           |                       |               |
|-------------------------------------------|-----------------------|---------------|
| Nominal voltage                           | V DC                  | 24            |
| Voltage range                             | V DC                  | 16 ... 28     |
| Nominal speed                             | $\text{min}^{-1}$     | 4300          |
| Max. flow rate                            | $\text{m}^3/\text{h}$ | 540           |
| Max. flow rate                            | CFM                   | 317.6         |
| Noise free air                            | dB(A)                 | 63            |
| Noise in opt. operating range             | bels                  | 6.9           |
| Current consumption                       | A                     | 1.54          |
| Power consumption                         | W                     | 37            |
| Perm. ambient temperature At max. voltage | $^{\circ}\text{C}$    | -20 ... +75   |
| Service life (75 $^{\circ}\text{C}$ )     | h                     | 40000         |
| Service life (40 $^{\circ}\text{C}$ )     | h                     | 90000         |
| Fan housing / impeller                    |                       | metal/PA6.6   |
| Bearing system                            |                       | ball bearings |
| Mass                                      | kg                    | 0.820         |

All data are average figures at nominal voltage

Subject to technical change

Patents granted or applied for.



Electrical connection via 3 leads AWG 22 TR64