# 4314/17T DC Axial Fan



Axial fan for DC operation driven by an electronically commutated external rotor motor with temperature dependent speed control.
A highly integrated , specially programmed microcontroller implements motor commutation and speed control.

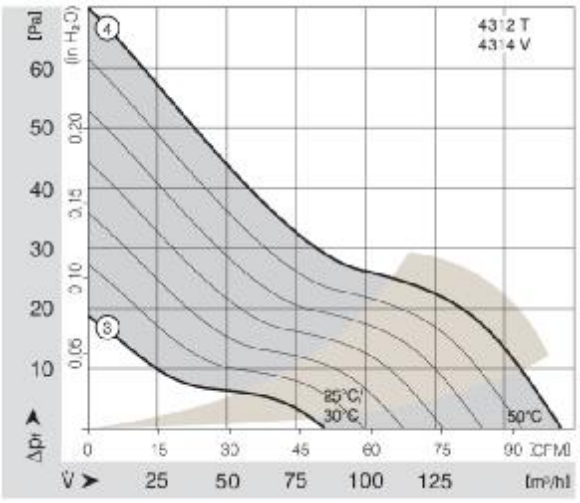
## Features

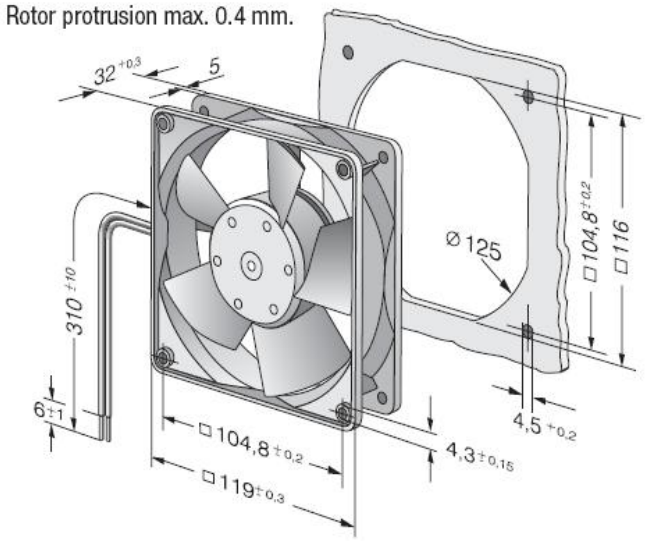
- Electronic protection against overload, reverse polarity and rotor blocking.
- Electrical connection via 4 leads
AWG 24, L=310mm
*Red: +Ub*
*Blue: GND*
*Violet : NTC*
*White: Alarm /17*
- Temperature-dependent speed control via connected NTC sensor positioned by customer. Temperature control range 30°C ... 50°C
- When temperature sensor is disconnected/interrupted, the fan runs at max. speed available at operating conditions.

## General Data

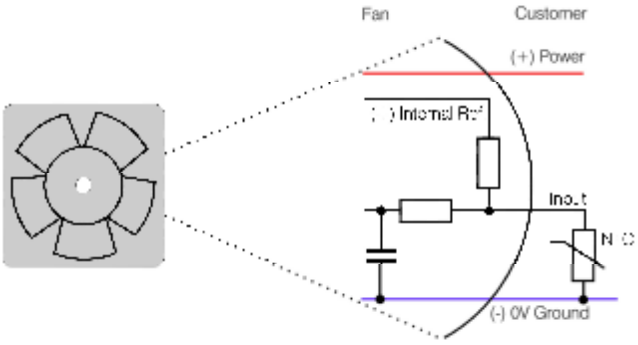
| | | | |
|---|---|---|---|
| Nominal Voltage | V DC | 24 | |
| Voltage range | V DC | 18 | 32 |
| Temperature | °C | 30 | 50 |
| Speed | rpm | 1400 | 2800 |
| Max. flow rate | $m^3/h$ | 85 | 170 |
| Noise free air | dB(A) | 29 | 45 |
| Noise in opt. Operating range | Bels | 4.2 | 5.8 |
| Current consumption | mA | 68 | 225 |
| Power consumption | W | 1.6 | 4.8 |
| Permanent ambient temperature at max. voltage | °C | -20 | +65 |
| Service life (65 °C) | h | 35.000 | |
| Service life (40 °C) | h | 65.000 | |
| Fan housing / impeller | | PBTP / PA | |
| Bearing system | | Ball bearings | |
| Mass | kg | 0.220 | |

All data are average figures at nominal voltage. Subject to technical change.

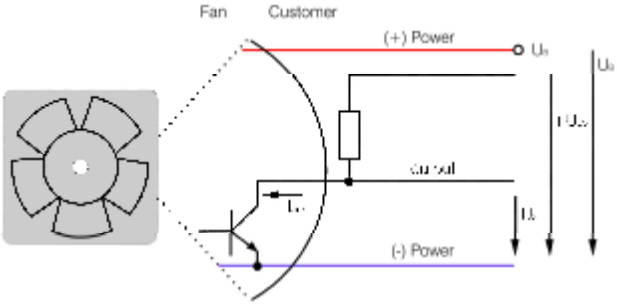


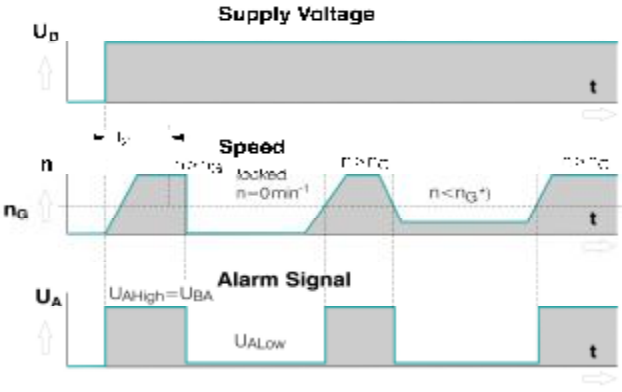



## External temperature control „T“




## Alarm signal /17




| Alarm signal data | Alarm output voltage $U_{A\,Low}$ | Condition: | Condition: $I_{sink}$ = | Alarm output-voltage $U_{A\,High}$ | Condition: | Condition: $I_{source}$ = | Alarm operating-voltage $U_{BA}$ max. | Max. permissible Sink current | Alarm delay-time $t_2$ | Condition: | Speed limit $n_G$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Type | VDC | | mA | VDC | | mA | VDC | mA | s | | min⁻¹ |
| 4314/17 T VARIOFAN | ≤ 0,4 | n < nG | 2 | 60 | n > nG | 0 | ≤ 60 | 20 | ≤ 15 | * | 1150 ± 100 |

* After switching on $U_B$