Max. 360 m³/h

# DC axial fans

## Ø 150 x 55 mm

- **Material:** Housing: Die-cast aluminum
  Impeller: GRP[1)] (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counterclockwise, looking towards rotor
- **Connection:** Via single wires AWG 22, TR 64
- **Highlights:** Housing with grounding lug for screw M4 x 8 (Torx)
- **Weight:** 725 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 / IP 68

1) Fiberglass-reinforced plastic

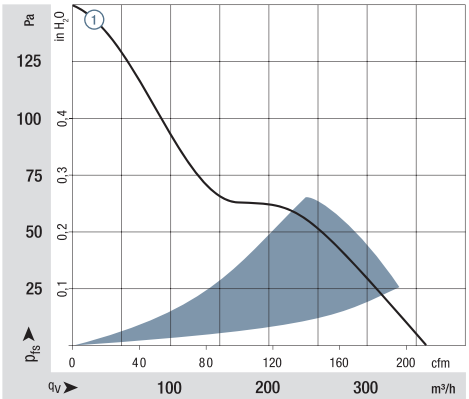
Series 7200 N

**Nominal data**

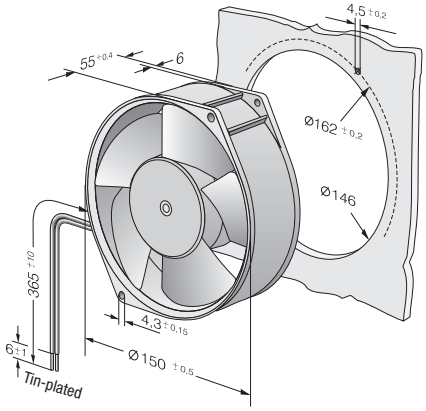
| Type | Air flow m³/h | Air flow cfm | Nominal voltage VDC | Voltage range VDC | Sound pressure level dB(A) | Sound power level Bel(A) | Sintec sleeve bearings □ / Ball bearings ■ | Power consumption* Watts | Nominal speed rpm⁻¹ | Temperature range °C | Service life $L_{10}$ (40 °C) ebm-papst standard Hours | Service life $L_{10}$ ($T_{max}$) ebm-papst standard Hours | Life expectancy $L_{10IPC}$ (40 °C) see page 17 Hours | Curve |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7212 N | 360 | 212 | **12** | 6...15 | 53 | 6.2 | ■ | 12.0 | 3 050 | -25...+72 | 80 000 | 37 500 | 135 000 | ① |
| 7214 N | 360 | 212 | **24** | 12...30 | 53 | 6.2 | ■ | 12.0 | 3 050 | -25...+72 | 80 000 | 37 500 | 135 000 | ① |
| 7218 N | 360 | 212 | **48** | 24...60 | 53 | 6.2 | ■ | 12.0 | 3 050 | -25...+72 | 80 000 | 37 500 | 135 000 | ① |

Subject to change

* 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

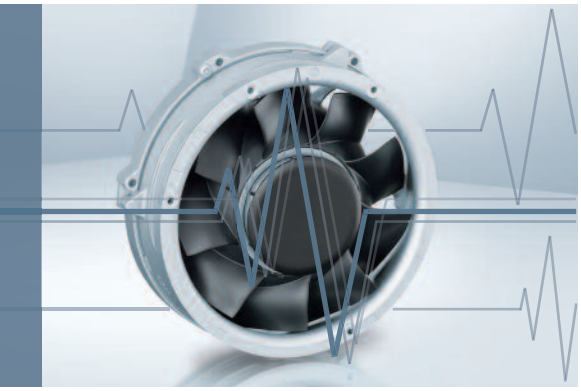





**Finger guards from p. 242**

ebmpapst

# Alarm signal /17



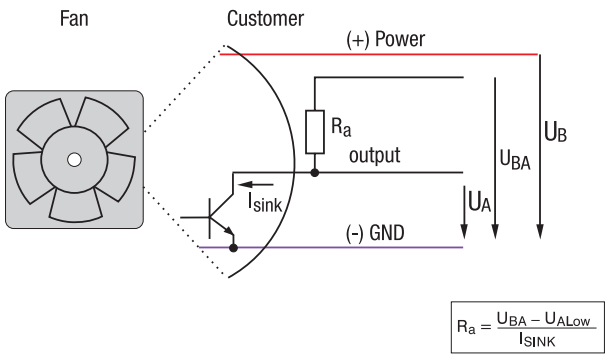
- Alarm signal for speed monitoring
- Signal output via open collector
- The fan emits a continuous high signal during trouble-free operation within the permissible voltage range.
- Low signal when speed limit is not reached
- After elimination of the fault, the fan returns to its setpoint speed; the alarm signal reverts to high.

| 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 startup delay time $t_6$ | Condition: | Speed limit $n_G$ | Fan description Basic type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **VDC** | | **mA** | **VDC** | | **mA** | **VDC** | **mA** | **s** | | **min$^{-1}$** | **Page** |
| 8318 /17 | ≤ 0.4 | $n < n_G$ | 2 | ≤ 60 | $n > n_G$ | 0 | 60 | 20 | ≤ 15 | * | 1500 ± 100 | 46 |
| 8318 /17 H | ≤ 0.4 | $n < n_G$ | 2 | ≤ 60 | $n > n_G$ | 0 | 60 | 20 | ≤ 15 | * | 1500 ± 100 | 46 |
| 4318 /17 | ≤ 0.4 | $n < n_G$ | 2 | ≤ 60 | $n > n_G$ | 0 | 60 | 20 | ≤ 15 | * | 850 ± 100 | 56 |
| 4184 N /17 X | ≤ 0.4 | $n < n_G$ | 2 | ≤ 60 | $n > n_G$ | 0 | 60 | 20 | ≤ 15 | * | 1500 ± 100 | 60 |

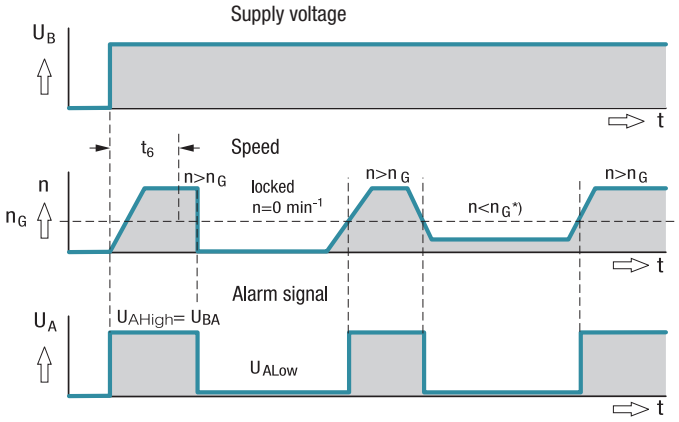
Subject to change

**Note:**
Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.

**Electrical hookup**




All voltages measured to ground.
External load resistor $R_a$ from $U_A$ to $U_{BA}$ required.




$t_6$ = Alarm signal suppression during startup.
* n < speed limit $n_G$ by braking or locking.



ebmpapst

**Available on request:**

- Integrated signal storage for subsequent recognition of short-term faults (latch).
- Alarm circuit open collector or TTL.
- Electrically isolated for maximum device safety
  Defects in the power circuit do not affect the alarm circuit.

| Alarm signaldata | 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 startup delay time $t_{G}$ | Condition: | Speed limit $n_{G}$ | Fan description Basic type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | **VDC** | | **mA** | **VDC** | | **mA** | **VDC** | **mA** | **s** | | **min$^{-1}$** | **Page** |
| 4312/17 MT VARIOFAN | ≤ 0.4 | $n < n_{G}$ | 2 | ≤ 60 | $n > n_{G}$ | 0 | 60 | 20 | ≤ 15 | * | 1500 ± 100 | 57 |
| 4312/17 T VARIOFAN | ≤ 0.4 | $n < n_{G}$ | 2 | ≤ 60 | $n > n_{G}$ | 0 | 60 | 20 | ≤ 15 | * | 1500 ± 100 | 57 |
| 4314/17 T VARIOFAN | ≤ 0.4 | $n < n_{G}$ | 2 | ≤ 60 | $n > n_{G}$ | 0 | 60 | 20 | ≤ 15 | * | 1150 ± 100 | 57 |
| 4318/17 T VARIOFAN | ≤ 0.4 | $n < n_{G}$ | 2 | ≤ 60 | $n > n_{G}$ | 0 | 60 | 20 | ≤ 15 | * | 850 ± 100 | 57 |
| 7214 N/17 | ≤ 0.4 | $n < n_{G}$ | 2 | ≤ 60 | $n > n_{G}$ | 0 | 60 | 15 | ≤ 15 | * | 1330 ± 60 | 70 |

Subject to change

* After switching on $U_{B}$

**Note:**
Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ebm-papst:

7214N/17 7214N/12 7214N/19