

4200 Series

Tubeaxial

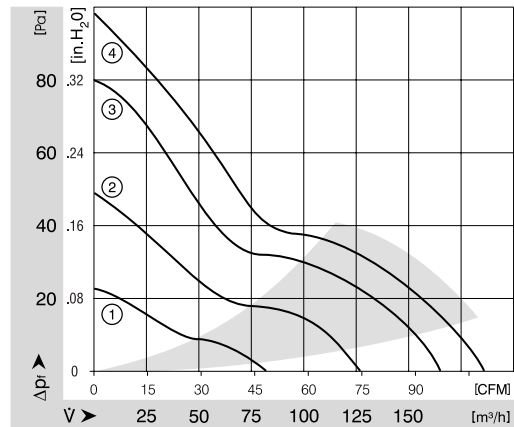
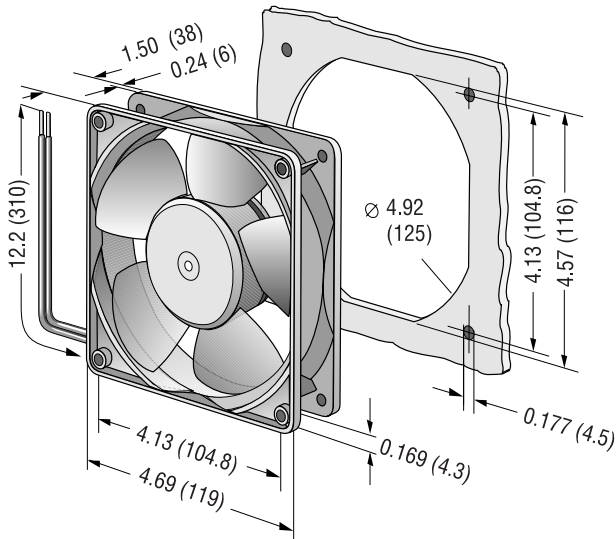
119x119x38mm



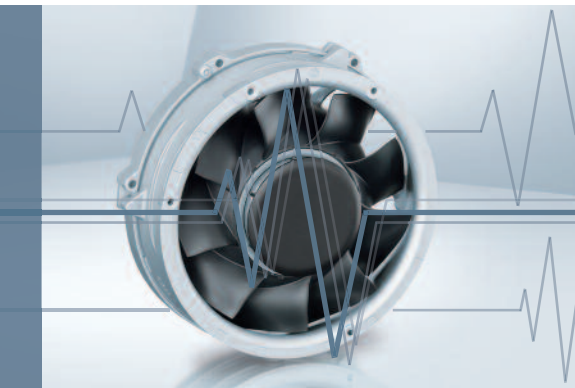
- DC fans with electronically commutated external rotor motor. Fully integrated commutation electronics.
- With electronic protection against reverse polarity, blocking and overloading by PTC-resistor; partially impedance protected.
- Mounting from either face using four 4.3 mm holes.
- Fan of fiberglass reinforced plastic. PBTP housing, PA impeller.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via leads AWG 22, TR 64. Stripped and tinned ends.
- UL, CSA, VDE approvals on some models, please contact application engineering.

| Part Number | Curve | CFM @ 0 | VDC | Volt. Range | Power (W) | dBA | Max Amb. Temp C | Bearing Type | Features | Wgt. (lbs) |
|-------------|-------|---------|-----|-------------|-----------|-----|-----------------|--------------|-----------|------------|
| 4212L | 1 | 50.6 | 12 | 7 to 14.5 | 1.2 | 29 | 75 | Ball | Leads | 0.64 |
| 4212GM | 2 | 74.7 | 12 | 7 to 14.5 | 2.2 | 38 | 75 | Sintec | Leads | 0.64 |
| 4212M | 2 | 74.7 | 12 | 7 to 14.5 | 2.2 | 38 | 75 | Ball | Leads | 0.64 |
| 4212 | 3 | 97.1 | 12 | 7 to 14.5 | 4.3 | 45 | 75 | Ball | Leads | 0.64 |
| 4212/2 | 3 | 97.1 | 12 | 7 to 14.5 | 4.3 | 45 | 75 | Ball | Leads | 0.64 |
| 4212/12 | 3 | 97.1 | 12 | 7 to 14.5 | 4.3 | 45 | 75 | Ball | Leads | 0.64 |
| 4212H | 4 | 108.3 | 12 | 7 to 14.5 | 5.3 | 49 | 65 | Ball | Leads | 0.64 |
| | | | | | | | | | | |
| 4214L | 1 | 50.6 | 24 | 12 to 28 | 1.2 | 29 | 75 | Ball | Leads | 0.64 |
| 4214 | 3 | 97.1 | 24 | 12 to 28 | 4.3 | 45 | 75 | Ball | Leads | 0.64 |
| 4214G | 3 | 97.1 | 24 | 12 to 28 | 4.3 | 45 | 75 | Sintec | Leads | 0.64 |
| 4214H | 4 | 108.3 | 24 | 12 to 28 | 5.3 | 49 | 65 | Ball | Leads | 0.64 |
| | | | | | | | | | | |
| 4218 | 3 | 97.1 | 48 | 36 to 56 | 4.3 | 45 | 75 | Ball | Leads | 0.64 |
| 4218/2 | 3 | 97.1 | 48 | 36 to 56 | 4.3 | 45 | 75 | Ball | Leads | 0.64 |
| 4218H | 4 | 108.3 | 48 | 36 to 56 | 5.6 | 49 | 65 | Ball | Terminals | 0.64 |

Terminal option available upon request.

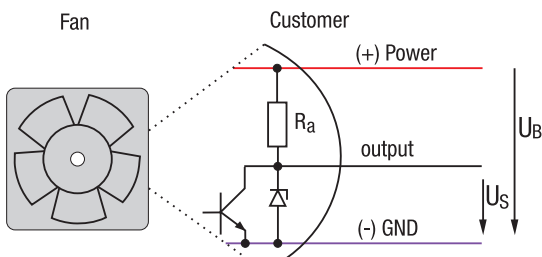


Speed signal /12



- Speed-proportional, square-wave signal for external monitoring of the fan motor speed
- 2, 3, or 6 pulses per revolution
- TTL-compatible
- Integrated pull-up resistor
- Connection via separate cable
- The sensor signal also serves as a major comparison variable for setting and maintaining the setpoint speed for interactive or controlled cooling with one or more interconnected fans.

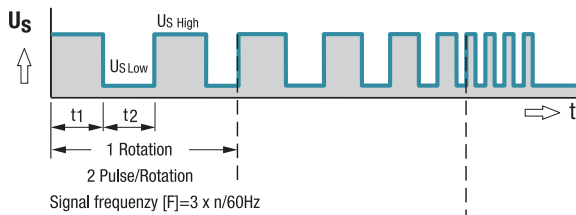
Electrical hookup



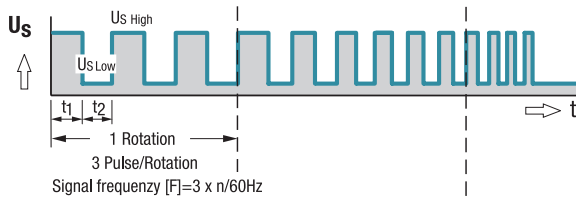
All voltages measured to ground.

Signal output voltage

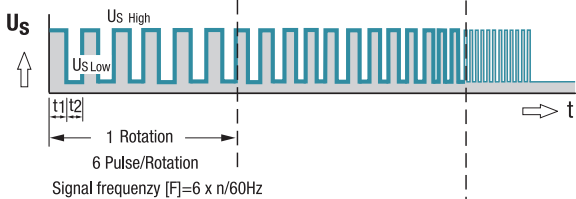
Standard signal for all models (exceptions see below)



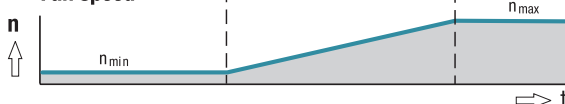
For multi options control input and 4100 NH7 and NH8



All TD Fans e.g. 6300 TD



Fan speed



| Signal data | Speed signal $U_{S\text{Low}}$ | Condition: I_{sink} | Speed signal $U_{S\text{High}}$ | Condition: I_{source} | Admissible sink current $I_{\text{sink max}}$ | Fan description Basic type |
|--------------|--------------------------------|------------------------------|---------------------------------|--------------------------------|---|----------------------------|
| Type | VDC | mA | VDC | mA | mA | Page |
| 614 N/12 GM | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 39 |
| 618 N/12 N | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 39 |
| 8412 N/12 H | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 44 |
| 4412 F/12 GM | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 53 |
| 4418 F/12 | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 53 |
| 4312 /12 M | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 56 |
| 4314 /12 | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 56 |
| 4182 N/12 X | ≤ 0.4 | 1 | 2.5–5.5 | 1 | 1 | 60 |

Subject to change

Note:

With these fan options, deviations in regard to temperature range, voltage range and power consumption are possible compared with standard fan data.

Available on request:

- Electrically isolated speed signal circuit
- Varying voltage potentials for power and logic circuit

| Signal data | Speed signal U _S Low | Condition: I _{sink} | Speed signal U _S High | Condition: I _{source} | Admissible sink current I _{sink} max. | Fan description Basic type |
|--------------------|------------------------------------|------------------------------|-------------------------------------|--------------------------------|---|-------------------------------|
| Type | VDC | mA | VDC | mA | mA | Page |
| 7214 N/12 | ≤0.4 | 2 | 2.5–5.5 | 1 | ≤20 | 70 |
| 6424/12 H | ≤0.4 | 2 | 2.5–5.5 | 1 | ≤20 | 71 |
| DV 6424/12 | ≤0.4 | 2 | 4.5–5.25 | 2 | ≤12 | 73 |
| DV 6448/12 | ≤0.4 | 2 | 4.5–5.25 | 2 | ≤12 | 73 |
| RG 125-19/12 N/12 | ≤0.4 | 1 | 2.5–5.5 | 1 | ≤1 | 103 |
| RG 160-28/12 N/12 | ≤0.4 | 2 | 2.5–5.5 | 1 | ≤5 | 104 |
| RG 160-28/18 N/12 | ≤0.4 | 2 | 2.5–5.5 | 1 | ≤20 | 104 |
| RER 125-19/12 N/12 | ≤0.4 | 1 | 2.5–5.5 | 1 | ≤1 | 116 |
| RER 160-28/12 N/12 | ≤0.4 | 2 | 2.5–5.5 | 1 | ≤5 | 118 |
| RER 160-28/18 N/12 | ≤0.4 | 2 | 2.5–5.5 | 1 | ≤20 | 118 |

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.