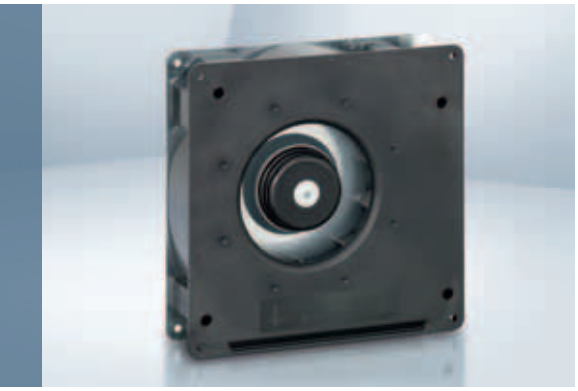
max. 137 m³/h

DC centrifugal fans

Series RG 125 N 180 x 180 x 40 mm



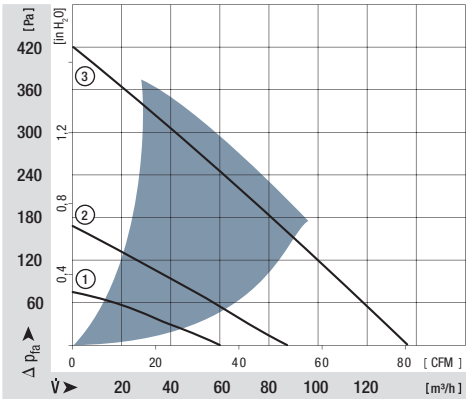
- **Material:** Scroll housing: GRP[1)]
  Impeller: GRP[1)]
  Housing base: Sheet steel
- **Direction of air flow:** Axial: Intake
  Centrifugal: Exhaust
- **Connection:** Via single wires AWG 22,
  TR 64
  48 V model: Flat plug
  6.3 x 0.8 mm for protective earth
- **Highlights:** Backwards-curved impeller
- **Mass:** 730 g

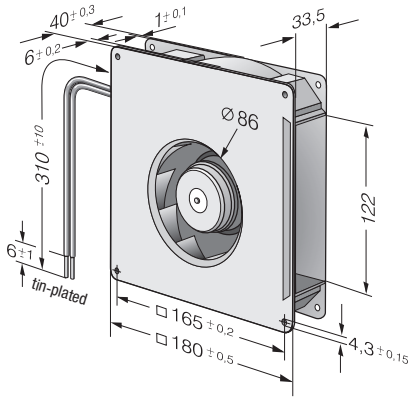
1) Fibreglass-reinforced plastic

- **Possible special versions:**
  (See chapter DC fans - specials)
  - Speed signal
  - Go / No-go alarm
  - Alarm with limit speed
  - External temperature sensor
  - Internal temperature sensor
  - PWM control input
  - Analogue control input
  - Protection against moisture
  - Protection against salt fog
  - Type of protection: IP 54 / IP 68

Nominal data	Air flow	Air flow	Nominal voltage	Voltage range	Sound power level	Sintec sleeve bearings / Ball bearings	Input power	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_{10IPC} (40 °C) see page 17	Curve
Type	**m³/h**	**CFM**	**VDC**	**VDC**	**Bel(A)**	**□ / ■**	**Watts**	**rpm**	**°C**	**Hours**	**Hours**	
RG 125-19/12 NM	60,0	35,3	**12**	7...15	4,8	■	2,0	1 750	-30...+75	70 000 / 30 000	117 500	①
RG 125-19/12 N	87,5	51,5	**12**	7...15	5,8	■	5,2	2 550	-30...+75	62 500 / 27 500	105 000	②
RG 125-19/14 NM	60,0	35,3	**24**	12...28	4,8	■	2,0	1 750	-30...+75	70 000 / 30 000	117 500	①
RG 125-19/14 N	87,5	51,5	**24**	12...28	5,8	■	4,9	2 550	-30...+75	62 500 / 27 500	105 000	②
RG 125-19/18 N	87,5	51,5	**48**	36...56	5,8	■	4,8	2 550	-30...+75	62 500 / 27 500	105 000	②
RG 125-19/18 NH	137	80,6	**48**	36...56	7,0	■	19,0	4 000	-20...+70	55 000 / 27 500	92 500	③

Subject to alternations





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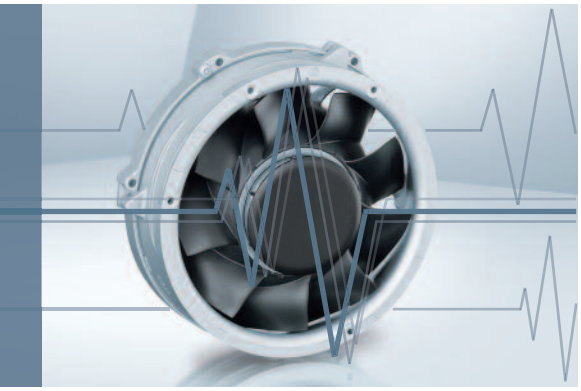
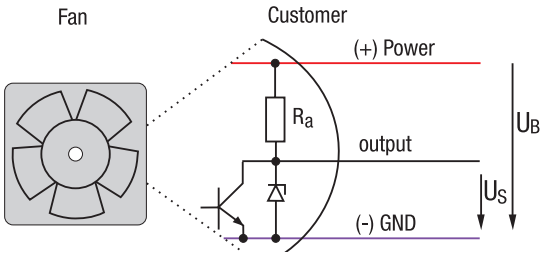
Speed signal /12



- 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.

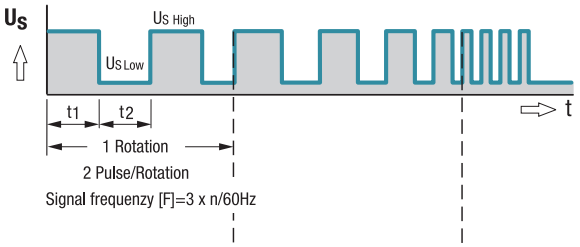
Electrical hookup



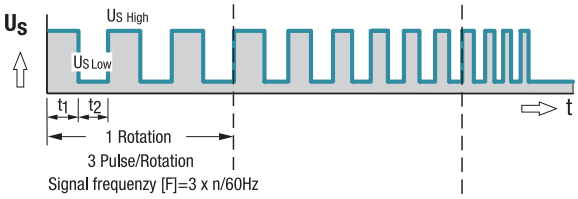
All voltages measured to ground.

Signal output voltage

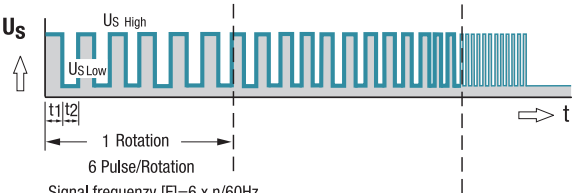
Standard signal for all models (exceptions see below)



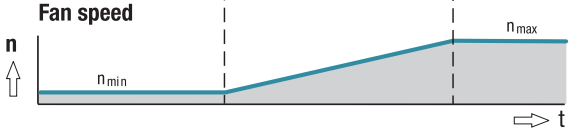
For multi options control input and 4100 NH7 and NH8



All TD Fans e.g. 6300 TD



Fan speed



Signal data	Speed signal U_S 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**
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.

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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.