max. 275 m³/h

DC Diagonal Fans

Series DV 4100 119 x 119 x 38 mm



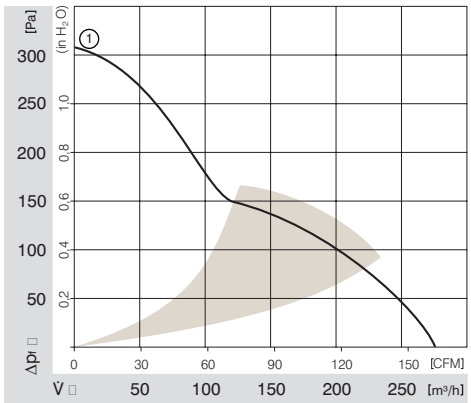
Highlights:

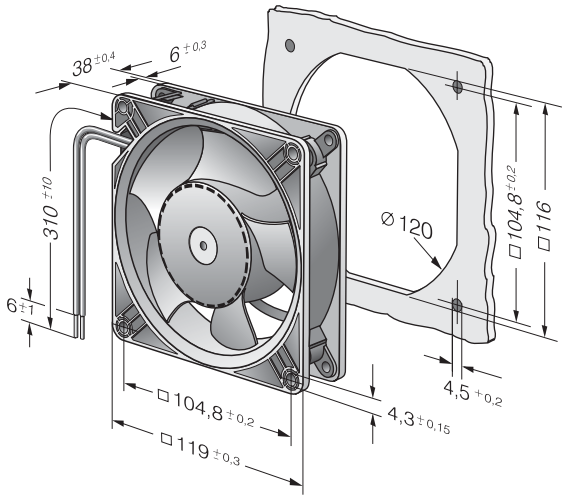
- Diagonal compact fan with low noise and high pressure saddle.
- Highly stable characteristic curve for high air flow with high back pressure.
- Optional Vario-Pro: Highly adaptable software configuration of the fan enables a tailor-made solution to the specific requirements of your applications.

General characteristics:

- Material: aluminium housing, fiberglass-reinforced PA impeller; housing with grounding lug for screw M4 x 8 (Torx).
- Fully integrated electronic commutation.
- Protected against reverse polarity and blocking.
- Electrical connection via single leads AWG 22, TR 64, bared and tin-plated
- Blowing over struts. Rotational direction CCW looking at rotor.
- Mass: 375 g (with aluminium housing : 455 g).

Nominal Data	Air Flow	Air Flow	Nominal Voltage	Voltage Range	Noise	Sound Power	Sintec-Sleeve Bearings Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L_{10} (40 °C) ebm-papst Standard	Service Life L_{10} (T_{max}) ebm-papst Standard	Life expectancy $L_{10\Delta}$ (40 °C)	Curve	Specials
Type	**m³/h**	**CFM**	**V DC**	**V DC**	**dB(A)**	**Bel**	**□/■**	**Watt**	**min⁻¹**	**°C**	**Hours**		**Hours**		
DV 4112 N	275	161.9	**12**	9...15	60	6.7	■	21.0	6 000	-20...+65	70 000 / 40 000		142 500	1	
DV 4114 N	275	161.9	**24**	16...30	60	6.7	■	21.0	6 000	-20...+65	70 000 / 40 000		142 500	1	/2
DV 4118 N	275	161.9	**48**	36...60	60	6.7	■	21.0	6 000	-20...+65	70 000 / 40 000		142 500	1	





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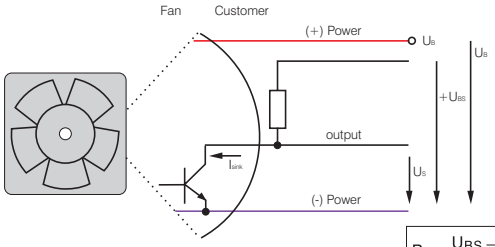
NG IT PWM A HP IP54 SP

Sensor signal /2 “tacho”



- Speed-proportional rectangular pulse for external speed monitoring of fan motor.
- 2 pulses per revolution / 6 pulses per revolution with TURBOFANS.
- Open-Collector signal output.
- Extremely wide operating voltage range (5 ... 60 V).
- Easy adaptation to user interface.
- Connection via separate lead.
- The sensor signal also serves as a major comparison variable for setting and maintaining the desired speed for interactive or controlled cooling with one or several interconnected fans.

Electrical connection

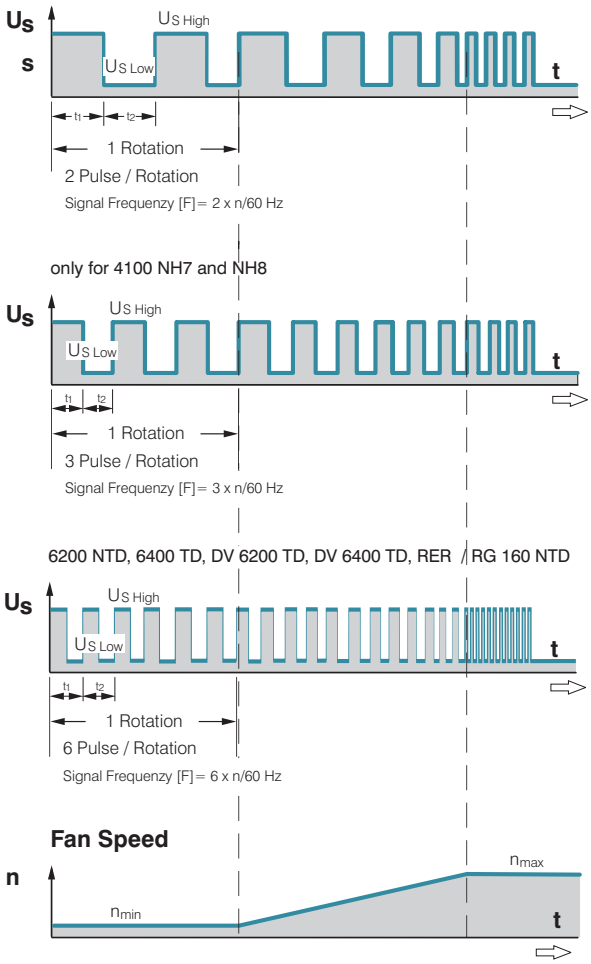


$$R_a = \frac{U_{BS} - U_{SLOW}}{I_{SINK}}$$

All voltages measured to ground.
External load resistance R_a / U_S / U_{BS} required.

Signal output voltage

Standard signal for all models (exemptions see below)



Fan Speed

Signal data	Sensor signal $U_{S\,Low}$	Condition: I_{sink}	Sensor signal $U_{S\,High}$	Condition: I_{source}	Sensor operating voltage U_{BS}	Perm. sink current $I_{sink\,max.}$	Fan description
Type	**V DC**	**mA**	**V DC**	**mA**	**V DC**	**mA**	**Page**
250	≤0.4	≤2	30	0	≤30	2	21
400 F	≤0.4	1	30	0	≤30	≤2	22
400	≤0.4	1	30	0	≤30	≤2	23
400 J	≤0.4	2	30	0	≤30	≤4	24
500 F	≤0.4	1	30	0	≤30	≤2	25
600 F	≤0.4	1	30	0	≤30	≤2	26
620	≤0.4	2	30	0	≤30	≤4	27
600 N	≤0.4	2	30	0	≤30	≤4	28
600 J	≤0.4	2	30	0	≤30	≤4	30
700 F	≤0.4	2	30	0	≤30	≤4	31
8400 N	≤0.4	2	28	0	≤28	≤4	33
8300	≤0.4	2	30	0	≤30	≤4	35
8200 J	≤0.4	2	30	0	≤30	≤4	36
3400 N	≤0.4	2	28	0	≤28	≤4	37
3300	≤0.4	2	30	0	≤30	≤4	39
3200 J	≤0.4	2	30	0	≤30	≤4	40
4400 F	≤0.4	2	30	0	≤30	≤4	41
4400 FN	≤0.4	2	30	0	≤30	≤4	42
4300 N	≤0.4	2	30	0	≤30	≤4	43
4300	≤0.4	2	30	0	≤30	≤4	44
4400	≤0.4	2	30	0	≤30	≤4	46
4212	≤0.4	2	30	0	≤30	≤4	47
4214	≤0.4	2	30	0	4–30	≤4	47
4218	≤0.4	2	30	0	4–30	≤4	47
4100 N	≤0.4	2	30	0	4–30	≤4	48
4100 NHH...H6	≤0.4	2	≤60	0	≤60	≤10	49
4100 NH7 / H8	≤0.4	2	≤60	0	60	≤20	50
DV 4100	≤0.4	2	30	0	≤30	≤4	51
5200 N	≤0.4	2	30	0	4–30	≤4	52
DV 5200	≤0.4	2	30	0	≤30	≤4	53
5112 N	≤0.4	2	15	0	≤5	≤20	54
5114 N	≤0.4	2	60	0	≤60	≤20	54
5118 N	≤0.4	2	60	0	≤60	≤20	54
5300	≤0.4	2	≤72	0	≤72	≤4	55

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Available on request:

– Galvanically separated sensor and signal circuit.
– Varying voltage potentials for power and logic circuit.

Signal data	Sensor signal $U_{S\,Low}$	Condition: I_{sink}	Sensor signal $U_{S\,High}$	Condition: I_{source}	Sensor operating voltage U_{BS}	Perm. sink current $I_{sink\,max.}$	Fan description
Type	**V DC**	**mA**	**V DC**	**mA**	**V DC**	**mA**	**Page**
7112 N	≤0.4	2	60	0	≤60	≤20	56
7114 N	≤0.4	2	30	0	≤30	≤20	56
7118 N	≤0.4	2	60	0	≤60	≤20	56
7200 N	≤0.4	2	15	0	≤15	≤20	57
6300	≤0.4	2	≤72	0	≤72	≤20	58
6224 N	≤0.4	8	30	0	≤30	≤20	59
6248 N	≤0.4	8	60	0	≤30	≤20	59
DV 6200	≤0.4	2	30	0	≤60	≤20	61
6400	≤0.4	2	60	0	≤60	≤20	63
RL 48	≤0.4	2	28	0	4–30	≤4	73
RL 65	≤0.4	2	30	0	≤30	≤4	74
RL 90 N	≤0.4	2	30	0	≤30	≤4	75
RLF 100	≤0.4	2	30	0	≤30	≤4	76
RG 90 N	≤0.4	2	30	0	≤30	≤4	77
RG 125 N	≤0.4	2	30	0	≤30	≤4	78
RG 160 N	≤0.4	2	30	0	≤30	≤20	79
REF 100	≤0.4	2	30	0	≤30	≤4	81
RER 125	≤0.4	2	30	0	≤30	≤4	83

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