

max. 540 m³/h

DC diagonal fans

Series DV 6200 172 Ø x 51 mm



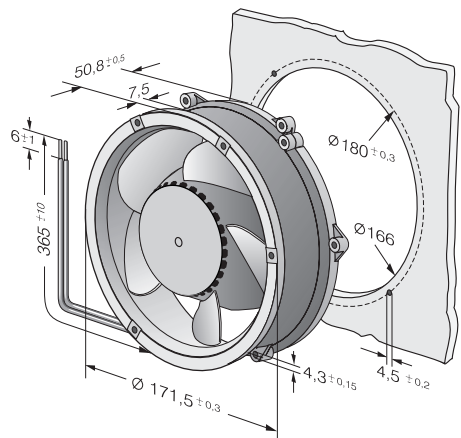
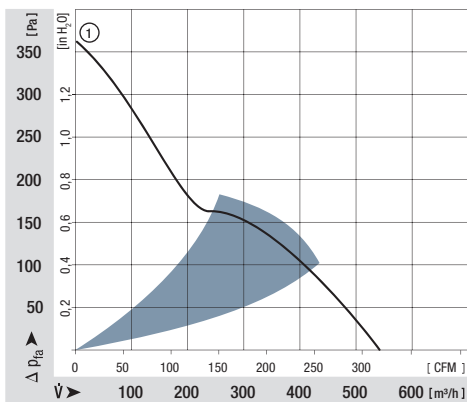
Highlights:

- Diagonal compact fan with low noise and high pressure saddle.
- Very rigid compression curve for high air flow at high back pressure.

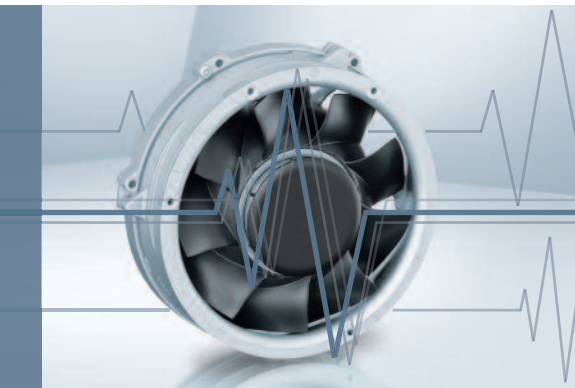
General characteristics:

- Material: aluminium housing, fibreglass-reinforced PA impeller; housing with grounding lug for screw M4 x 8 (Torx). 48 V version incl. screws.
- Fully integrated electronic commutation.
- Protected against reverse polarity and locking.
- Connection via single strands AWG 22, TR 64. Bared and tin-plated.
- Air exhaust over struts. Direction of rotation counter-clockwise, seen on rotor.
- Mass: 820 g.

Nominal data		Air flow	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sinter 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 ^Δ (40 °C) see P. 15	Curve	Specials
Type		m ³ /h	CFM	VDC	VDC	dB(A)	Bel(A)	■ / ■	Watts	RPM	°C	Hours	Hours	Hours		P. 110/112
DV 6224		540	317,8	24	16...28	63	7,1	■	40,0	4 300	-20...+75	90 000 / 40 000	180 000	180 000	1	/2/12
DV 6248		540	317,8	48	28...60	63	7,1	■	40,0	4 300	-20...+75	90 000 / 40 000	180 000	180 000	1	

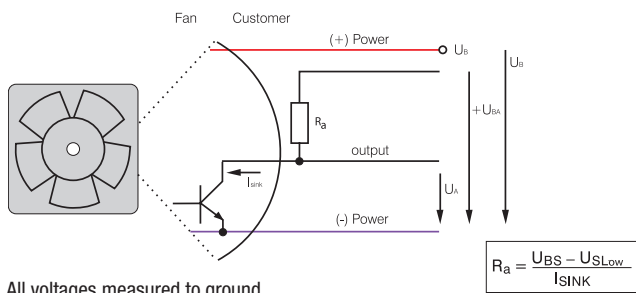


Speed signal /2



- Speed-proportional, square-wave signal for external monitoring of the fan motor speed
- 2, 3, or 6 pulses per revolution
- Open-collector signal output
- Extremely wide operating voltage range
- Easy adaptation to user interface
- 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

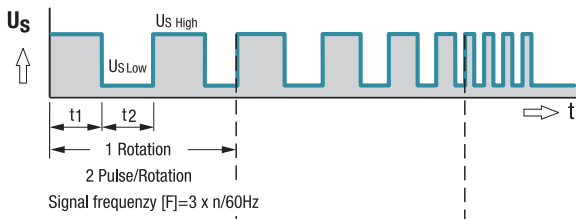


All voltages measured to ground.
External load resistor $R_a / U_S / U_{BS}$ required.

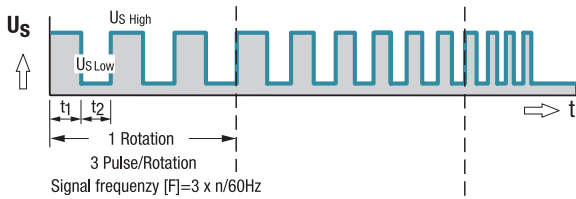
$$R_a = \frac{U_{BS} - U_{BSLow}}{I_{SINK}}$$

Signal output voltage

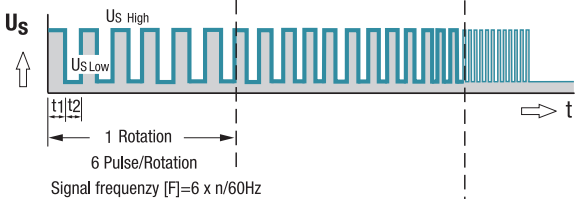
Standard signal for all models (exceptions see below)



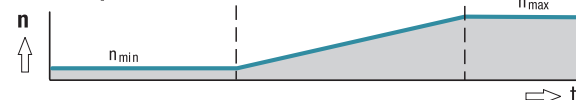
For multi options control input and 4100 NH7 and NH8



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}		Tach operating voltage $U_{BS\text{max}}$	Admissible sink current $I_{\text{sink max}}$	Pulses per revolution	Fan description Basic type
	Type	VDC	mA	VDC	mA	VDC	mA	Page				
250	≤ 0.4	2	≤ 30	0	30	2	2	31				
400 F	≤ 0.4	1	≤ 30	0	30	2	2	32				
400	≤ 0.4	1	≤ 30	0	30	2	2	33				
420 J	≤ 0.4	2	≤ 15	0	15	4	2	34				
500 F	≤ 0.4	1	≤ 30	0	30	2	2	35				
600 F	≤ 0.4	1	≤ 30	0	30	2	2	36				
620	≤ 0.4	2	≤ 30	0	30	4	2	37				
630 U	≤ 0.4	2	≤ 30	0	30	4	2	38				
600 N	≤ 0.4	2	≤ 28	0	28	4	2	39				
600 J	≤ 0.4	2	≤ 30	0	30	4	2	41				
700 F	≤ 0.4	2	≤ 30	0	30	4	2	42				
8450	≤ 0.4	2	≤ 28	0	28	4	2	43				
8400 N	≤ 0.4	2	≤ 28	0	28	4	2	44				
8400 N VARIOFAN	≤ 0.4	2	≤ 30	0	30	4	2	45				
8300	≤ 0.4	2	≤ 30	0	30	4	2	46				
8200 J	≤ 0.4	2	≤ 30	0	30	4	2	47				
3400 N	≤ 0.4	2	≤ 28	0	28	4	2	48				
3400 N VARIOFAN	≤ 0.4	2	≤ 30	0	30	4	2	49				
3300 N	≤ 0.4	2	≤ 30	0	30	4	2	50				
3212 J / 3214 J	≤ 0.4	2	≤ 30	0	30	4	2	51				
3218 J	≤ 0.4	2	≤ 60	0	60	4	2	51				
3250 J	≤ 0.4	2	≤ 60	0	60	4	3	52				
4412 F / 4414 F	≤ 0.4	2	≤ 30	0	30	4	2	53				
4418 F	≤ 0.4	2	≤ 60	0	60	4	2	53				
4400 FN	≤ 0.4	2	≤ 30	0	30	4	2	55				
4312 / 4314	≤ 0.4	2	≤ 30	0	30	4	2	56				
4318	≤ 0.4	2	≤ 60	0	60	4	2	56				
4312 / 4314 VARIOFAN	≤ 0.4	2	≤ 30	0	30	4	2	57				
4318 VARIOFAN	≤ 0.4	2	≤ 60	0	60	4	2	57				
4400	≤ 0.4	2	≤ 30	0	30	4	2	58/59				
4100 N	≤ 0.4	2	≤ 30	0	30	4	2	60				
4100 NHH...NH6	≤ 0.4	2	≤ 60	0	60	10	2	61				
4100 NH7...NH8	≤ 0.4	2	≤ 60	0	60	20	3	62				
DV 4100	≤ 0.4	2	≤ 30	0	30	4	2	63				
5200 N	≤ 0.4	2	≤ 30	0	30	4	2	64				
DV 5200	≤ 0.4	2	≤ 30	0	30	4	2	65				

Subject to change