max. 170 m³/h

DC axial fans

Series 4400 F 119 x 119 x 25 mm

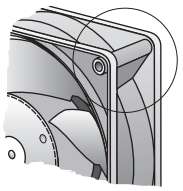
- **Material:** Housing: GRP[1] (PBT)
  Impeller: GRP[1] (PA)
- **Direction of air flow:** Exhaust over struts
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Connection:** Via single wires AWG 24, TR 64
- **Highlights:** Ball bearings and plain bearings available
- **Mass:** 175 g

- **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

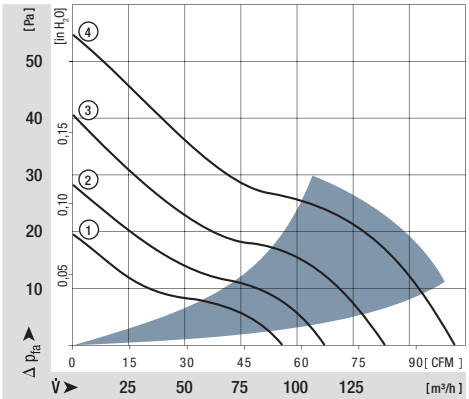
1) Fibreglass-reinforced plastic

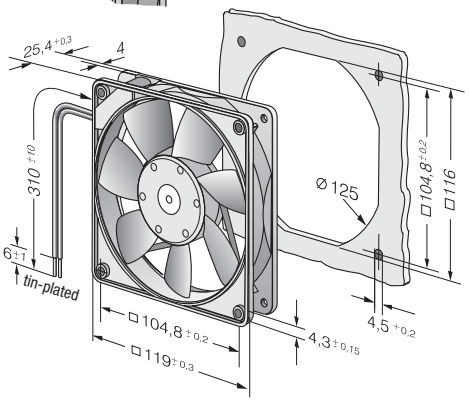
Nominal data	Air flow	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sintec sleeve bearings / Ball bearings	Input power	Nominal speed	Temperature range	Service life L_{10} (40 °C) ebm-papst Standard / Service life L_{10} (T_{max}) ebm-papst Standard	Life expectancy L_{10IPC} (40 °C) see page 17	Curve
Type	**m³/h**	**CFM**	**VDC**	**VDC**	**dB(A)**	**Bel(A)**	□/■	**Watts**	**rpm**	**°C**	**Hours**	**Hours**	
4412 FGL	94	55	**12**	7...14	26	3,9	□	1,3	1 600	-20...+75	80 000 / 35 000	135 000	①
4412 FGML	114	67	**12**	7...12,6	32	4,3	□	2,0	1 950	-20...+75	75 000 / 32 500	127 500	②
4412 FML	114	67	**12**	7...12,6	32	4,3	■	2,0	1 950	-20...+75	75 000 / 32 500	127 500	②
4412 FGM	140	82	**12**	7...12,6	38	4,8	□	3,2	2 400	-20...+75	70 000 / 30 000	117 500	③
4412 FM	140	82	**12**	7...12,6	38	4,8	■	3,2	2 400	-20...+75	70 000 / 30 000	117 500	③
4412 FG	170	100	**12**	8...12,6	43	5,3	□	5,3	2 900	-20...+60	60 000 / 37 500	102 500	④
4412 F	170	100	**12**	8...12,6	43	5,3	■	5,3	2 900	-20...+60	60 000 / 37 500	102 500	④
4414 FL	94	55	**24**	18...28	26	3,9	■	1,2	1 600	-20...+75	80 000 / 35 000	135 000	①
4414 FM	140	82	**24**	12...28	38	4,8	■	3,1	2 400	-20...+75	70 000 / 30 000	117 500	③
4414 FG	170	100	**24**	12...28	43	5,3	□	5,0	2 900	-20...+60	60 000 / 37 500	102 500	④
4414 F	170	100	**24**	12...28	43	5,3	■	5,0	2 900	-20...+60	60 000 / 37 500	102 500	④
4418 FG	170	100	**48**	28...53	43	5,3	□	5,4	2 900	-20...+60	60 000 / 37 500	102 500	④
4418 F	170	100	**48**	28...53	43	5,3	■	5,4	2 900	-20...+60	60 000 / 37 500	102 500	④

Subject to alternations

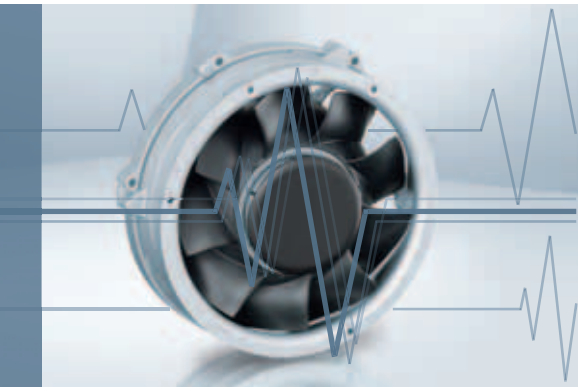


Available on request:
Fan housing with moulded-in spacers. For mounting over both flanges.



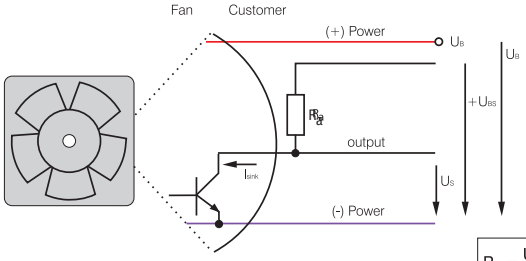


Speed signal /2



- Speed-proportional rectangular pulse for external speed monitoring of fan motor
- 2, 3 or 6 pulses per revolution
- Open collector signal output
- Extremely wide operating voltage range
- Easy adaptation to user interface
- Connection via separate lead
- 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 several interconnected fans.

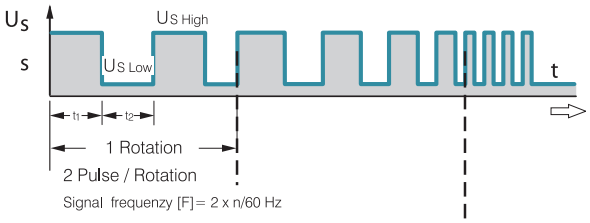
Electrical connection



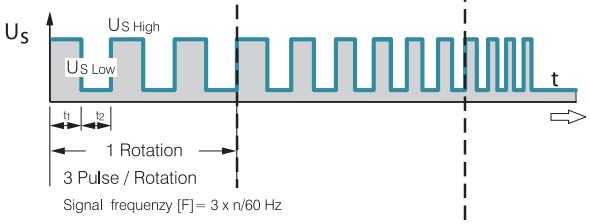
$$R_a = \frac{U_{BS} - U_{SLow}}{I_{SINK}}$$

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

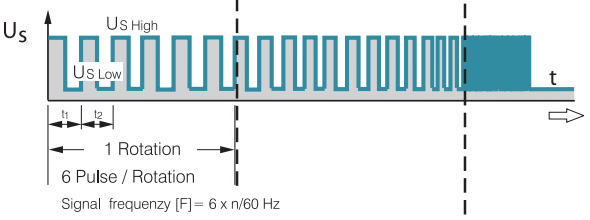
Signal output voltage
Standard signal for all models (exceptions see below)



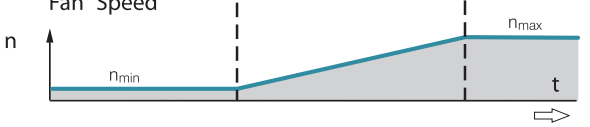
only for 4100 NH7 and NH8



Alle TD Lüfter. Bsp.: 6400 TD



Fan Speed



Signal data	Speed signal U_S Low	Condition: I_{sink}	Speed signal U_S High	Condition: I_{source}	Sensor operating voltage U_{BS} max.	Perm. sink current I_{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	≤ 0,4	2	≤ 30	0	30	4	2	50
3300 N	≤ 0,4	2	≤ 30	0	30	4	2	51
3212 J / 3214 J	≤ 0,4	2	≤ 30	0	30	4	2	52
3218 J	≤ 0,4	2	≤ 60	0	60	4	2	52
3250 J	≤ 0,4	2	≤ 60	0	60	4	3	53
4412 F / 4414 F	≤ 0,4	2	≤ 30	0	30	4	2	54
4418 F	≤ 0,4	2	≤ 60	0	60	4	2	54
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

Subject to alternations

ebmpapst

Available on request:
– Electrically isolated sensor and 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}	Sensor operating voltage U_{BS} max.	Perm. sink current I_{sink} max.	Pulses per revolution	Fan description Basic type
Type	**VDC**	**mA**	**VDC**	**mA**	**VDC**	**mA**		**Page**
5200 N	≤ 0,4	2	≤ 30	0	30	4	2	64
DV 5200	≤ 0,4	2	≤ 30	0	30	4	2	65
5112 N	≤ 0,4	2	≤ 15	0	5	20	2	66
5114 N / 5118 N	≤ 0,4	2	≤ 60	0	60	20	2	66
5300	≤ 0,4	2	≤ 72	0	72	4	2	67
5300 TD	≤ 0,4	2	≤ 72	0	72	20	6	68
7112 N / 7118 N	≤ 0,4	2	≤ 60	0	60	20	2	69
7114 N	≤ 0,4	2	≤ 30	0	30	20	2	69
7200 N	≤ 0,4	2	≤ 15	0	15	20	2	70
6300	≤ 0,4	2	≤ 72	0	72	20	2	72
6300 TD	≤ 0,4	2	≤ 72	0	72	20	6	73/74
DV 6300	≤ 0,4	2	≤ 72	0	72	20	6	75
6400	≤ 0,4	2	≤ 60	0	60	20	2	76
2200 FTD	≤ 0,4	2	≤ 72	0	72	20	6	80
RL 48	≤ 0,4	2	≤ 30	0	30	4	2	95
RL 65	≤ 0,4	2	≤ 30	0	30	4	2	96
RL 90 N	≤ 0,4	2	≤ 30	0	30	4	2	97
RLF 100	≤ 0,4	2	≤ 30	0	30	4	2	98
RG 90 N	≤ 0,4	2	≤ 30	0	30	4	2	99
RG 125 N	≤ 0,4	2	≤ 30	0	30	4	2	100
RG 160 N	≤ 0,4	2	≤ 30	0	30	20	2	101
RG 160 NTD	≤ 0,4	2	≤ 60	0	60	20	6	102
RG 190 TD	≤ 0,4	2	≤ 72	0	72	20	6	103
RG 220 TD	≤ 0,4	2	≤ 72	0	72	20	6	104
RG 225 TD	≤ 0,4	2	≤ 72	0	72	20	6	105
RET 97 TD	≤ 0,4	2	≤ 72	0	72	20	6	106
REF 100	≤ 0,4	2	≤ 30	0	30	4	2	107
RER 120 TD	≤ 0,4	2	≤ 72	0	72	20	6	109
RER 133 TD	≤ 0,4	2	≤ 72	0	72	20	6	113
RER 160 NTD	≤ 0,4	2	≤ 60	0	60	20	6	115
REF 175 TD	≤ 0,4	2	≤ 72	0	72	20	6	116
RER 175 TD	≤ 0,4	2	≤ 72	0	72	20	6	117
RER 190 TD	≤ 0,4	2	≤ 72	0	72	20	6	118
RER 220 TD	≤ 0,4	2	≤ 72	0	72	20	6	124
RER 225 TD	≤ 0,4	2	≤ 72	0	72	20	6	125

Subject to alternations

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DC Fans ***category:***

Click to view products by ebm papst ***manufacturer:***

Other Similar products are found below :

614R AUB0612L AFB0948HH-S687 G2E085-AA05-10 4318/12T AUB0912H-F00 3412N/2ME W2G110-AM39-01 8412GLV 8412NGL-12 6448-384 4114N/17-251 622/2N 4318/2R 4412F/2D 424JMU 4414/2HH 4112 N/12GL-175 9GA0912F402 9GA0812B20011 AFB0824SHBAV1 DV5214/2NP-230 9GA0912H4021 THC1548MGDJJ GFB1224SHG 8500NU DC0401012V2B-3T0 3254J/2HPU 9A0612G402 AD5012HB-C71 AD5012MB-C71 EF92251S3-1000U-A99 PF80251B3-000U-Q99 026758A 3258J/2H3PU???? 412/2H 4292 MF60152V1-1000U-G99 3610KL-04W-B50-D00 EE92251B1-000U-G99 8218J/2H4P 4318NN 4318NH3 4314NL 4312NM MITX-CORE-HTSNK ME45101V1-000U-A99 OD1238-24HBIP55 4312NHH 612N/2GH