

**Product****Change / Discontinuation Notice**

In an ongoing effort to keep our product offering streamlined with the latest component technology, we are discontinuing select products. Attached is a list of the part numbers along with their recommended replacements (where applicable).

- Last time buys for the discontinued items can be made through March 31, 2015

For any products that do not have a recommended replacement, please work with your local ebm-papst sales representative, Regional Distribution Manager, or me to find an alternate solution. We can also help your sales people get the alternative ebm-papst products on the “bill of material.”

**Supporting Documentation Attached**

- **1-2015 Product Disc – Repl**  
List of discontinued products with recommended replacements, where applicable (includes comparison datasheets)
- **NPT 1-2015 Repl Products**  
Product Template for recommended replacements
- **Datasheets**  
3300N  
6314H  
6318H  
Speed Signal\_2
- **Product Images**  
3300N  
6300H

Please let me know if you have questions, or if you need any further information.

Best Regards,

**Mike Rota**

Director – Distributor Sales NAR

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our commitment to eco-friendly production

Manufacturer	Discontinued Part Number	Last Time Buy	Replaced By	For Comparison Datasheets, Please See Tab Named...
ebm-papst Inc.	4606ZR	3/31/15	N/A*	N/A
ebm-papst Inc.	4656N	3/31/15	N/A*	N/A
ebm-papst Inc.	6112NM	3/31/15	N/A*	N/A
ebm-papst Inc.	622/2HHP-021	3/31/15	N/A*	N/A
ebm-papst Inc.	6224N/19-280	3/31/15	N/A*	N/A
ebm-papst Inc.	6248N/12	3/31/15	N/A*	N/A
ebm-papst Inc.	8500NU	3/31/15	N/A*	N/A
ebm-papst Inc.	AC6100NM	3/31/15	N/A*	N/A
ebm-papst Inc.	AC6100NMU-008	3/31/15	N/A*	N/A
ebm-papst Inc.	DV6224/17P-240	3/31/15	N/A*	N/A
ebm-papst Inc.	DV6224/2TDA-816	3/31/15	N/A*	N/A
ebm-papst Inc.	DV624817TDAU821	3/31/15	N/A*	N/A
ebm-papst Inc.	RER1251918N17IR	3/31/15	N/A*	N/A
ebm-papst Inc.	3312	3/31/15	3312NN	3312 (12 Volt) Datasheets
ebm-papst Inc.	3312-177	3/31/15	3312NH	3312 (12 Volt) Datasheets
ebm-papst Inc.	3312L	3/31/15	3312NL	3312 (12 Volt) Datasheets
ebm-papst Inc.	3312U	3/31/15	3312NNU	3312 (12 Volt) Datasheets
ebm-papst Inc.	3314	3/31/15	3314NN	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314/2H	3/31/15	3314N/2HH	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314-140	3/31/15	3314NH	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314G	3/31/15	3314NN	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314H	3/31/15	3314NHH	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314HU	3/31/15	3314NHHU	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314S	3/31/15	3314N/2N	3314 (24 Volt) Datasheets
ebm-papst Inc.	3314U	3/31/15	3314NNU	3314 (24 Volt) Datasheets
ebm-papst Inc.	3318	3/31/15	3318NN	3318 (48 Volt) Datasheet
ebm-papst Inc.	DV6224	3/31/15	6314H	DV6224 (24 Volt) Datasheet
ebm-papst Inc.	DV6248	3/31/15	6318H	DV6248 (48 Volt) Datasheet

**\* For products with no direct replacement, please work with your local ebm-papst sales representative, Regional Distribution Manager, or Mike Rota to find an alternate solution**

max. 133 m<sup>3</sup>/h

# DC axial fans

Series 3300 N 92 x 92 x 32 mm

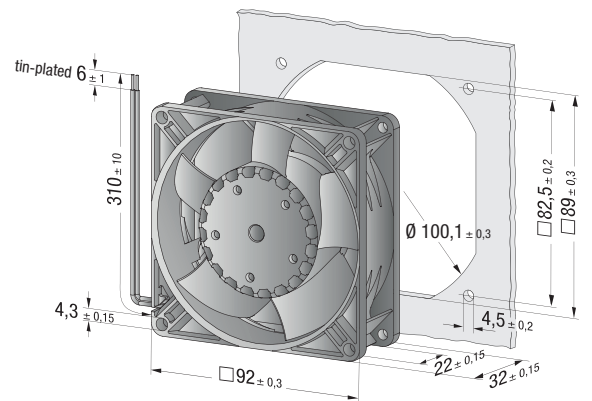
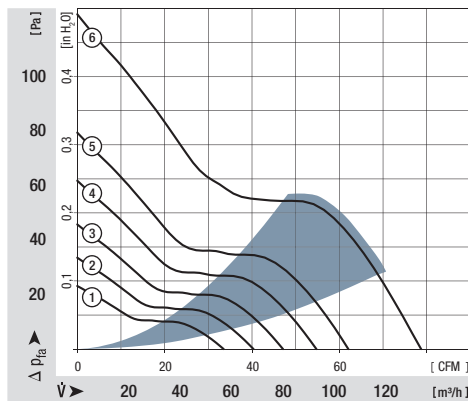


- **Material:** Housing: GRP<sup>1)</sup> (PBT)  
Impeller: GRP<sup>1)</sup> (PA)
  - **Direction of air flow:** Exhaust over struts
  - **Direction of rotation:** Clockwise, seen on rotor
  - **Connection:** Via single wires AWG 24  
UL 1061, TR 64
  - **Mass:** 190 g
- **Possible special versions:**  
(See chapter DC fans - specials)
    - Speed signal
    - Go / No-go alarm
    - 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

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 <sub>10</sub> (40 °C) ebm-papst Standard	Service life L <sub>10</sub> (T <sub>max</sub> ) ebm-papst Standard	Life expectancy L <sub>10</sub> (IPC (40 °C) see page 17	Curve
Type		m <sup>3</sup> /h	CFM	VDC	VDC	dB(A)	Bel(A)	■ / ■	Watts	rpm	°C	Hours	Hours		
NEW	3312 NL	56	33	12	6...15	24	4,1	■	0,8	1 850	-20...+75	80 000 / 35 000	135 000	①	
NEW	3312 NM	68	40	12	6...15	29	4,5	■	1,3	2 250	-20...+75	70 000 / 30 000	117 500	②	
NEW	3312 NN	80	47	12	6...15	35	4,7	■	1,8	2 650	-20...+75	70 000 / 30 000	117 500	③	
NEW	3312 NH	93	54	12	6...15	38	5,1	■	2,8	3 050	-20...+75	65 000 / 27 500	110 000	④	
NEW	3312 NHH	107	63	12	6...15	42	5,4	■	3,4	3 450	-20...+75	57 500 / 25 000	97 500	⑤	
NEW	3312 NH3	133	78	12	6...14	50	6,0	■	6,7	4 350	-20...+70	50 000 / 25 000	85 000	⑥	
NEW	3314 NN	80	47	24	18...28	35	4,7	■	1,8	2 650	-20...+75	70 000 / 30 000	117 500	③	
NEW	3314 NH	93	54	24	18...28	38	5,1	■	2,6	3 050	-20...+75	65 000 / 27 500	110 000	④	
NEW	3314 NHH	107	63	24	18...28	42	5,4	■	3,5	3 450	-20...+75	57 500 / 25 000	97 500	⑤	
NEW	3314 NH3	133	78	24	18...28	50	6,0	■	6,7	4 350	-20...+75	50 000 / 22 500	85 000	⑥	
NEW	3318 NN	80	47	48	36...60	35	4,7	■	1,8	2 650	-20...+75	70 000 / 30 000	117 500	③	
NEW	3318 NH	93	54	48	36...60	38	5,1	■	3,5	3 050	-20...+75	65 000 / 27 500	110 000	④	
NEW	3318 NH3	133	78	48	36...58	50	6,0	■	6,5	4 350	-20...+75	50 000 / 22 500	85 000	⑥	

Subject to alternations



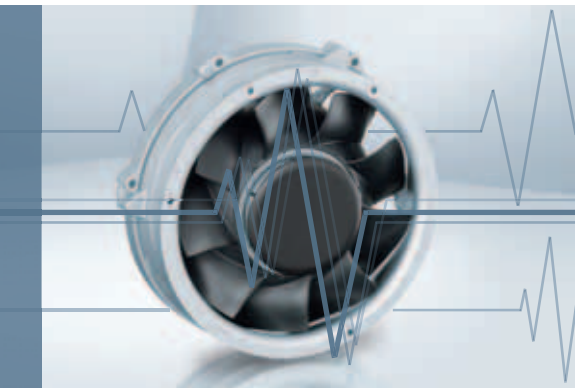


	DV6224	6314H
<b>Technische Daten / technical data</b>	DV6224	6314H
Nennspannung / <i>Nominal Voltage</i>	24V	24V
Spannungsbereich / <i>Voltage Range</i>	16...28V	16...30V
Nenndrehzahl / <i>Nominal Speed</i>	4300 1/min	5000 1/min
Volumenstrom / <i>Air Flow</i>	540 m <sup>3</sup> /h	545 m <sup>3</sup> /h
Sollwerteingang / <i>Speed Control Input</i>	Keinen / <i>None</i>	Keinen / <i>None</i>
Signal Ausgang / <i>Signal Output</i>	Keinen / <i>None</i>	Keinen / <i>None</i>
Anlaufstrom / <i>Start-up Current</i>	3,5 A peak	1,8 A peak
Blockierschutz / <i>Locked Rotor Protection</i>	El. Wiederanl. / <i>el. restart</i> 1,4s / 5,3s	el. Wiederanl. / <i>el. restart</i> 0,5s / 7,0s
Leistungsaufnahme / <i>Power Consumption</i>	40W	31W
Geräusch / <i>Noise (Schalldruck)</i>	63,0dB(A)	58dB(A)
Schallleistung / <i>Sound Power</i>	7,1 bel(A)	6,9 bel(A)
Zulässige Umgebungstemperatur / <i>Temperature Range</i>	-20 ... 75°C	-20 ... + 65°C
Lebensdauererwartung / <i>Life expectancy</i> L10 @ 40°C	90.000 h	77.500 h
Lebensdauererwartung / <i>Life expectancy</i> L10 @ max. Temp.	40.000 h	42.500
Lagersystem / <i>Bearing System</i>	Kugellager / <i>Ball bearing</i>	Kugellager / <i>Ball bearing</i>
Masse / <i>Mass</i>	0,820kg	0,825kg
Besonderheiten / <i>Specials</i>		



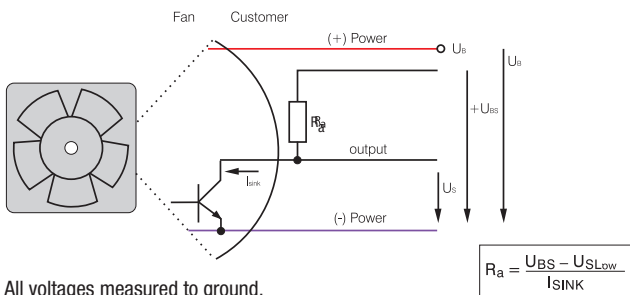
	DV6248	6318H
<b>Technische Daten / technical data</b>	DV6248	6318H
Nennspannung / <i>Nominal Voltage</i>	48V	48V
Spannungsbereich / <i>Voltage Range</i>	28...60V	36...72V
Nennzahl / <i>Nominal Speed</i>	4300 1/min	5000 1/min
Drehzahlbereich / <i>Speed Range</i>	2750 ... 4710 1/min	~4200 ... 5000 1/min
Volumenstrom / <i>Air Flow</i>	540 m <sup>3</sup> /h	545 m <sup>3</sup> /h
Sollwerteingang / <i>Speed Control Input</i>	Keinen / <i>None</i>	Keinen / <i>None</i>
Signaloutput / <i>Signal Output</i>	Keinen / <i>None</i>	Keinen / <i>None</i>
Anlaufstrom / <i>Start-up Current</i>	3,5 A peak	1,5 A peak
Blockierschutz / <i>Locked Rotor Protection</i>	El. Wiederanl. / <i>el. restart</i> 1,4s / 5,3s	el. Wiederanl. / <i>el. restart</i> 0,5s / 10,0s
Leistungsaufnahme / <i>Power Consumption</i>	40W @ 48V	32W @ 48V
Geräusch / <i>Noise (Schalldruck)</i>	63,0dB(A)	58,0dB(A)
Schalleistung / <i>Sound Power</i>	7,1 bel(A)	6,9 bel(A)
Zulässige Umgebungstemperatur / <i>Temperature Range</i>	-20 ... 75°C	-20 ... + 65°C
Lebensdauererwartung / <i>Life expectancy</i> L10 @ 40°C	90.000 h	77.500 h
Lebensdauererwartung / <i>Life expectancy</i> L10 @ max. Temp.	40.000 h	42.500 h
Lagersystem / <i>Bearing System</i>	Kugellager / <i>Ball bearing</i>	Kugellager / <i>Ball bearing</i>
Masse / <i>Mass</i>	0,820kg	0,825kg
Besonderheiten / <i>Specials</i>		

# 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.

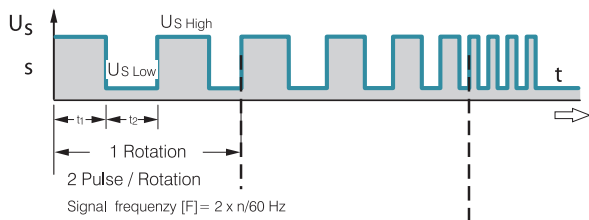
## Electrical connection



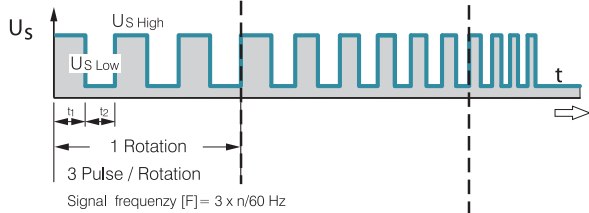
All voltages measured to ground.  
External load resistor  $R_a$  /  $U_S$  /  $U_{BS}$  required.

## Signal output voltage

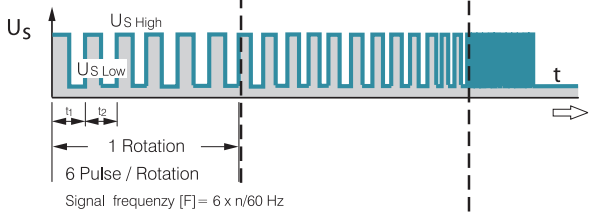
Standard signal for all models (exceptions see below)



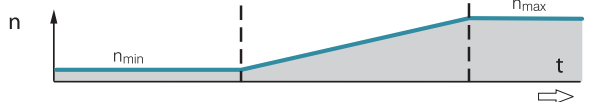
only for 4100 NH7 and NH8



Allé TD Lüfter. Bsp.: 6400 TD



## Fan Speed



Signal data	Speed signal $U_{S\ Low}$	Condition: Isink	Speed signal $U_{S\ High}$	Condition: Isource	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



**Available on request:**

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

Signal data	Speed signal U <sub>S</sub> Low	Condition: !sink	Speed signal U <sub>S</sub> High	Condition: !source	Sensor operating voltage U <sub>GS</sub> max.	Perm. sink current I <sub>sink</sub> 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.