

Max. 570 m³/h
S-Force

DC axial fans

□ 119 x 38 mm



- **Material:** Housing: Die-cast aluminum
Impeller: GRP¹⁾ (PA)
- **Direction of air flow:** Intake over struts
- **Direction of rotation:** Clockwise, looking towards rotor
- **Connection:** Via single wires AWG 18, 20 or AWG 22, TR 64, speed signal and control input AWG 22
- **Highlights:** Highly efficient and smoothly operating 3-phase fan drive
Housing with grounding lug for screw M4 x 8 (Torx)
- **Weight:** 425 g
- **Possible special versions:** (See chapter DC fans - specials)
 - Speed signal
 - Go / NoGo alarm
 - Alarm with speed limit
 - External temperature sensor
 - Internal temperature sensor
 - PWM control input (standard)
 - Analog control input
 - Moisture protection
 - Salt spray protection

1) Fiberglass-reinforced plastic

Series 4100 N
High Performance

Nominal data

Series 4100 N High Performance														
Nominal data	Air flow	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sinter sleeve bearings Ball bearings	Power consumption**	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 IPC (40 °C) see page 17	Curve
Type	m³/h	cfm	VDC	VDC	dB(A)	Bel(A)	■ / ■	Watts	rpm ⁻¹	°C	Hours	Hours	Hours	
4114 N/2 H7P	500	294	24	16...30	76	8.5	■	90	9 500	-20...+75	57 500 / 25 000	97 500	97 500	①
4114 N/2 H8P	570	336	24	16...30	78	8.9	■	120	11 000	-20...+75	55 000 / 22 500	92 500	92 500	②
4118 N/2 H7P	500	294	48	36...60*	76	8.5	■	90	9 500	-20...+75	57 500 / 25 000	97 500	97 500	①
4118 N/2 H8P	570	336	48	36...60*	78	8.9	■	120	11 000	-20...+75	55 000 / 22 500	92 500	92 500	②

Subject to change

* 36...72 VDC on request.

Speed control range from 500 rpm⁻¹ up to maximum nominal speed.

Standstill at 0% PWM, maximum speed if control cable is interrupted.

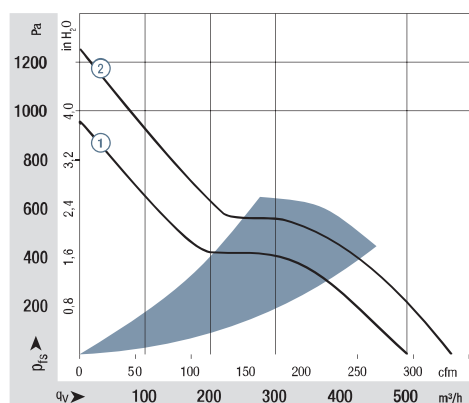
To attain the specified service life, an external capacitor must be wired

between the plus and minus strands. Please note the wiring suggestion on page 16.

** Power consumption at free air flow, these values can be significantly higher in the operating point.

** Power consumption - in operation

Fan type	optimum operating range (W)
4114 NH7P	100
4114 NH8P	160
4118 NH7P	100
4118 NH8P	160



Air performance measured according to: ISO 5801
Installation category A, without contact protection.
Noise: Total sound power level L_{WA} ISO 103002
measured on a hemisphere with a radius of 2 m.
Sound pressure level L_{PA} measured at 1 m distance
from fan axis.

The values given are applicable only under the specified
measuring conditions and may differ depending on the
installation conditions.

In the event of deviation from the standard configuration,
the parameters must be checked after installation!

For detailed information see

<http://www.ebmpapst.com/general-conditions>

