



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Max. 570 m<sup>3</sup>/h  
**S-Force**

## DC axial fans

□ 119 x 38 mm



- **Material:** Housing: Die-cast aluminum  
Impeller: GRP<sup>1)</sup> (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

Type	Air flow		Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sintec sleeve bearings Ball bearings	Power consumption**	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
	m <sup>3</sup> /h	cfm												
4114 N/2 H7P	500	294	24	16...30	76	8.5	■	90	9 500	-20...+75	57 500 / 25 000	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	②	
4118 N/2 H7P	500	294	48	36...60*	76	8.5	■	90	9 500	-20...+75	57 500 / 25 000	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	②	

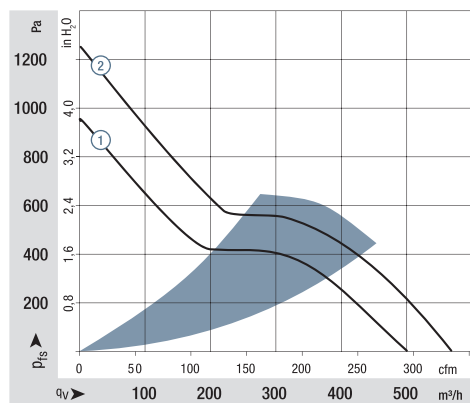
Subject to change

\* 36...72 VDC on request.

Speed control range from 500 rpm<sup>-1</sup> 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<sub>WA</sub> ISO 103002 measured on a hemisphere with a radius of 2 m.  
Sound pressure level L<sub>PA</sub> 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>

