

**ebm-papst St. Georgen GmbH & Co. KG**

Hermann-Papst-Straße 1

78112 St. Georgen

Phone: +49 7724 81-0

Fax: +49 7724 81-1309

www.ebmpapst.com

info2@de.ebmpapst.com

**Nominal data**

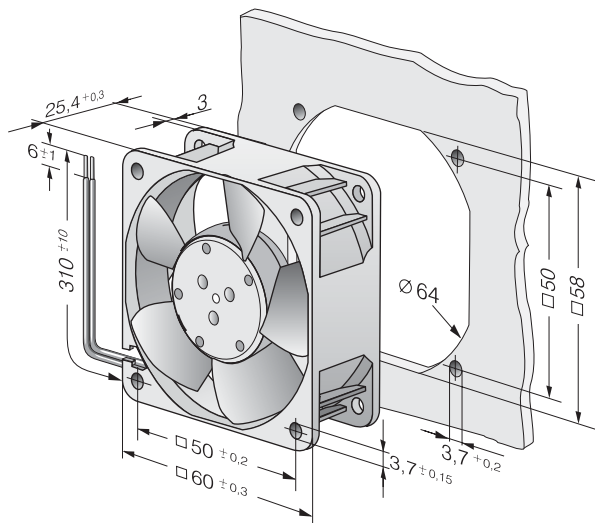
Type	614 NH	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	18 .. 26
Speed	[min <sup>-1</sup> ]	5600
Power input	[W]	2,1
Min. ambient temperature	[°C]	-20
Max. ambient temperature	[°C]	70
Air flow	[m <sup>3</sup> /h]	46
Sound power level	[B]	5,3
Sound pressure level	[dB(A)]	37

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations

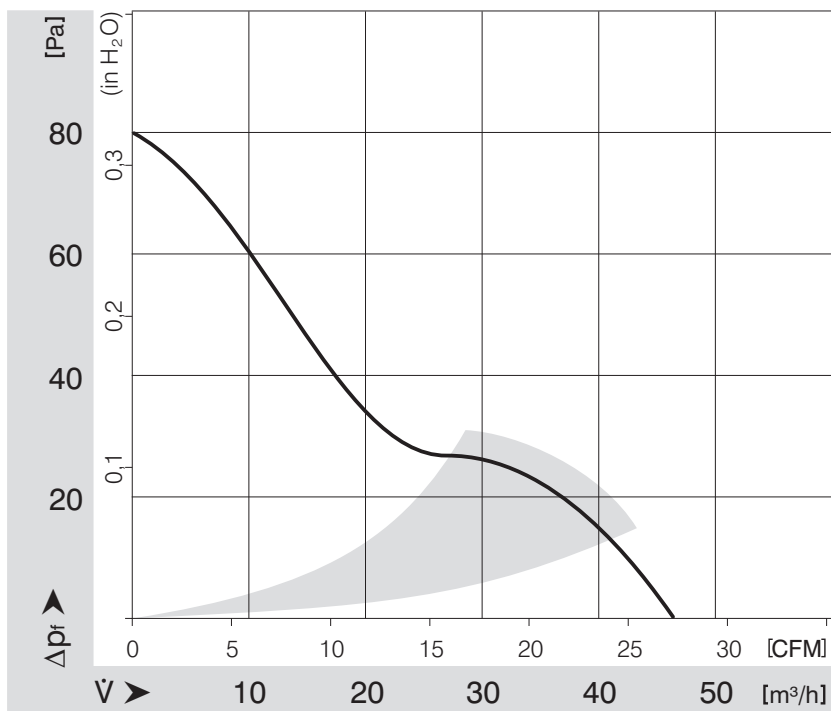
**Technical features**

<b>Dimensions</b>	60 x 60 x 25 mm
<b>General description</b>	Electronic commutation completely integrated.
<b>Connection line</b>	Single strands AWG 22, TR 64, bared and tin-plated.
<b>Locked-rotor protection</b>	With electronic blocking and overload protection
<b>Direction of protection</b>	Right, looking at rotor
<b>Direction of air flow</b>	Air exhaust over bars
<b>Bearing</b>	Ball bearings
<b>Lifetime L10 at 40 °C</b>	70000 h
<b>Lifetime L10 at maximum temperature</b>	35000 h
<b>Mass</b>	0.066 kg
<b>Housing material</b>	Fiberglass-reinforced PBTP plastic
<b>Material of impeller</b>	Fiberglass-reinforced PA plastic
<b>Motor protection</b>	Protected against reverse polarity and locking.
<b>Option</b>	Speed signal
<b>Approval</b>	VDE, CSA, UL, CE

## Product drawing



## Charts: Air flow



## Information on IP 54 Papst Solutions

IP = International Protection Classes per IEC 34-5

IEC 34-5 describes the degree of safety each type has against foreign matter/possibility of dangerous contact and the ingress of moisture/water.

PAPST fan models with letter "U" in the PAPST type designation are IP 54 protected. Please do not consider IP 54 as a high level protection class which is suitable for every application with climatic impact. IP classes describe certain features. These features may not fit in the applications requirements, **so the requirements have to be analyzed exactly.**

### PAPST DC-models.

- Stator
  - Casting process under vacuum with 2 components casting resin (white color).
  - Rated UL94V-0 for flammability
- Rotor
  - In standard version
  - Generally equipped with drain holes in the motor gap

### PAPST AC-models

- Stator
  - Casted with 2 components casting resin (white color).
  - Outer diameter reduced to original size by turning casting resin away.
  - Repainted with grey varnish.
  - rated UL94V-0 for flammability
- Rotor
  - Electrophoretic (electrostatic) black painted
  - Generally equipped with drain holes

### Approvals

- Approved by VDE and SEV for IP 54 protection as well as for electrical safety.
- Approvals only cover models with flying leads, because the design of the existing standard terminal is unable to prevent ingress or collection of water.