

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

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www.ebmpapst.cominfo2@de.ebmpapst.com**Nominal data**

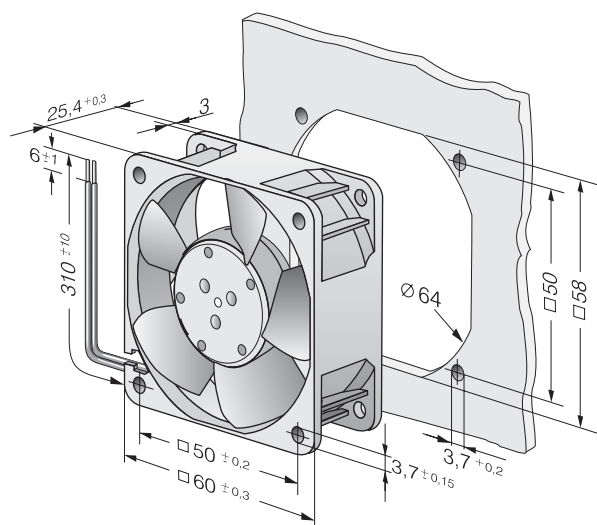
Type	614 NH	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	18 .. 26
Speed	[min ⁻¹]	5600
Power input	[W]	2,1
Min. ambient temperature	[°C]	-20
Max. ambient temperature	[°C]	70
Air flow	[m ³ /h]	46
Sound power level	[B]	5,3
Sound pressure level	[dB(A)]	37

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

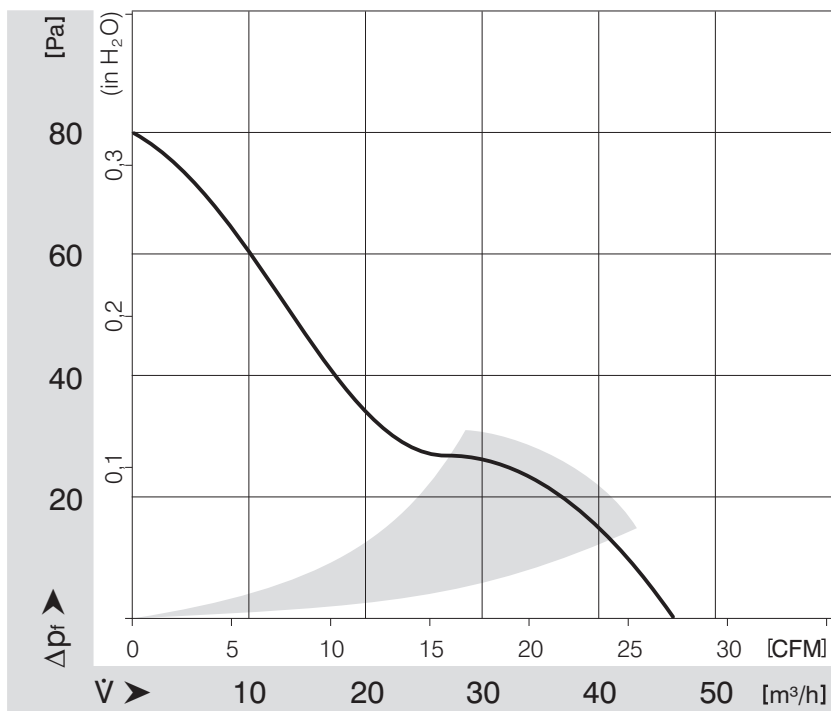
Technical features

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