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**Nominal data**

Type	412 F	
Nominal voltage	VDC	12
Nominal voltage range	VDC	10 .. 14
Speed (rpm)	min <sup>-1</sup>	5400
Power consumption	W	0.7
Min. ambient temperature	°C	-20
Max. ambient temperature	°C	70
Air flow	m <sup>3</sup> /h	8
Sound power level	B	4.4
Sound pressure level	dB(A)	22.1

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



**Technical description**

<b>Weight</b>	0.017 kg
<b>Dimensions</b>	40 x 40 x 10 mm
<b>Impeller material</b>	Glass-fiber reinforced PA plastic
<b>Housing material</b>	Glass-fiber reinforced PBT plastic
<b>Airflow direction</b>	Exhaust over struts
<b>Direction of rotation</b>	Counterclockwise, viewed toward rotor
<b>Storage</b>	Sintec sleeve bearing system
<b>Service life L10 at 20 °C</b>	45000 h
<b>Service life L10 at 60 °C</b>	17500 h
<b>Cable</b>	Leads AWG 28, TR 64, stripped and tin-plated.
<b>Motor protection</b>	Protection against reverse polarity and blocked rotor.
<b>Approval</b>	VDE, CSA, UL
<b>Option</b>	Possible custom designs: Speed signal Go / No-go alarm Moisture protection



## Curves: Air performance

