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Date of the revision 2026-07-30: Technical files creation

For consultation
Revision of datasheet in writing

RANGE: Double inlet centrifugal fans with electronic commutation motor

Fan type	FC	Test	LY43Od	Customer	ROSENBERG
		Winding	36G	Reference	
Drawing of the product	BIS_B06-L1-1_I=0.pdf	Designation	GDSG9 146x126L		



ELECTRICAL DATA

Voltage (V)	230
Frequency (Hz)	50/60
Current (A)	1.17
Maximum current (A)	1.22
Power (W)	149
Maximum power (W)	158
Speed rotation (RPM)	1795
Cos Φ	0.554
Temperature min/max (°C)	-20/+50
Comments	Free Airflow

Winding temperature cold (Temperature at 20°C, tolerances 7%)

1
24.0 Ohm

Dielectric strength 2044 VDC 60 seconds

Direction of rotation CW

MARKING & STANDARDS

Conformity

- **CE** RT91927CE EN 60335-1, IEC 60335-1, EN 60331-2-80, IEC 60335-2-80

ErP 2015 compliant

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TECHNICAL DATA

Description

- Weight: 3.40 kg
- Class F
- Ingress Protection : IP 54 | Protection against ingress of dust / Protection against ingress of water : splashing
- Motor's protection Electronically protected
- Bearing type: 2 ball bearings 608ZZ
- Balance level: G2.5

Special features

- Configuration: D166
- Input resistance 0-10V : 100KΩ
- Equipotential line between scroll & motor : Grounding the volute.

Limiting conditions of operation

- ESD : Take care on Low voltage cable

ADDITIONAL DATA

Documentations

- Operating and recycling manual.
<https://en.ecofit.com/contact/contact/5-contact-us.html>

Measurement setup

- Scroll 15642-0 Vol VHD168 H18 galva

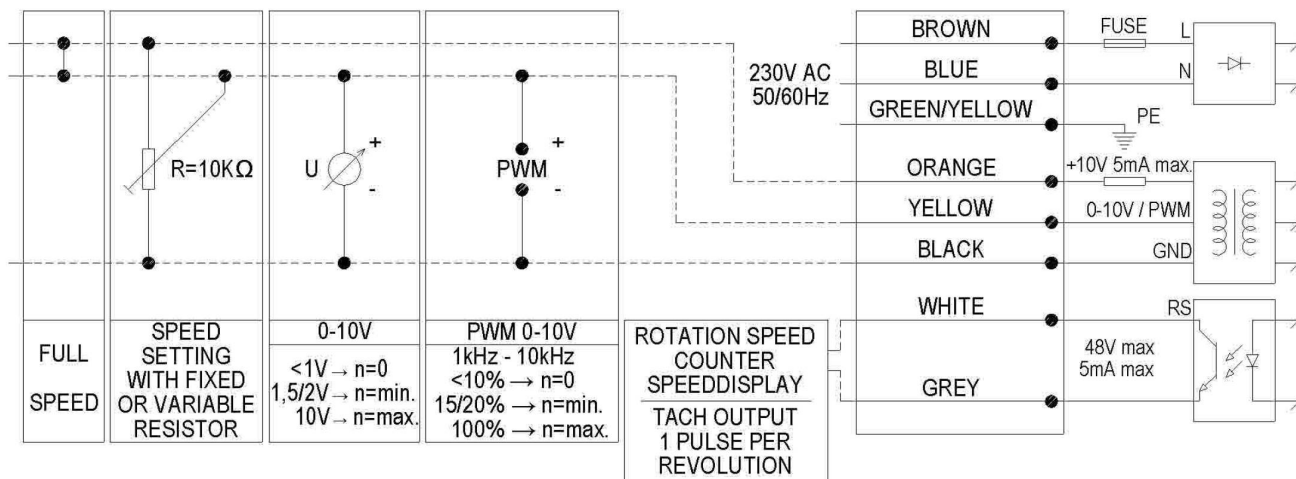
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CONNECTORS

Wiring diagram



ERP DATA

Data according to ErP directive

Voltage	230	V
Frequency	50/60	Hz
Power ¹	0.156	kW
Airflow ¹	461	m3/h
Pressure ¹	452	Pa
Speed rotation ¹	2641	RPM
Installation category	A	
Efficiency category	static	
Variable speed driver	Yes	
Special ratio	1.00	

- Designed for standard applications according to the directive EU 2009/125/EC2015

	Actual	2015
Overall efficiency	42.5	32.6
Efficiency grade	54	44

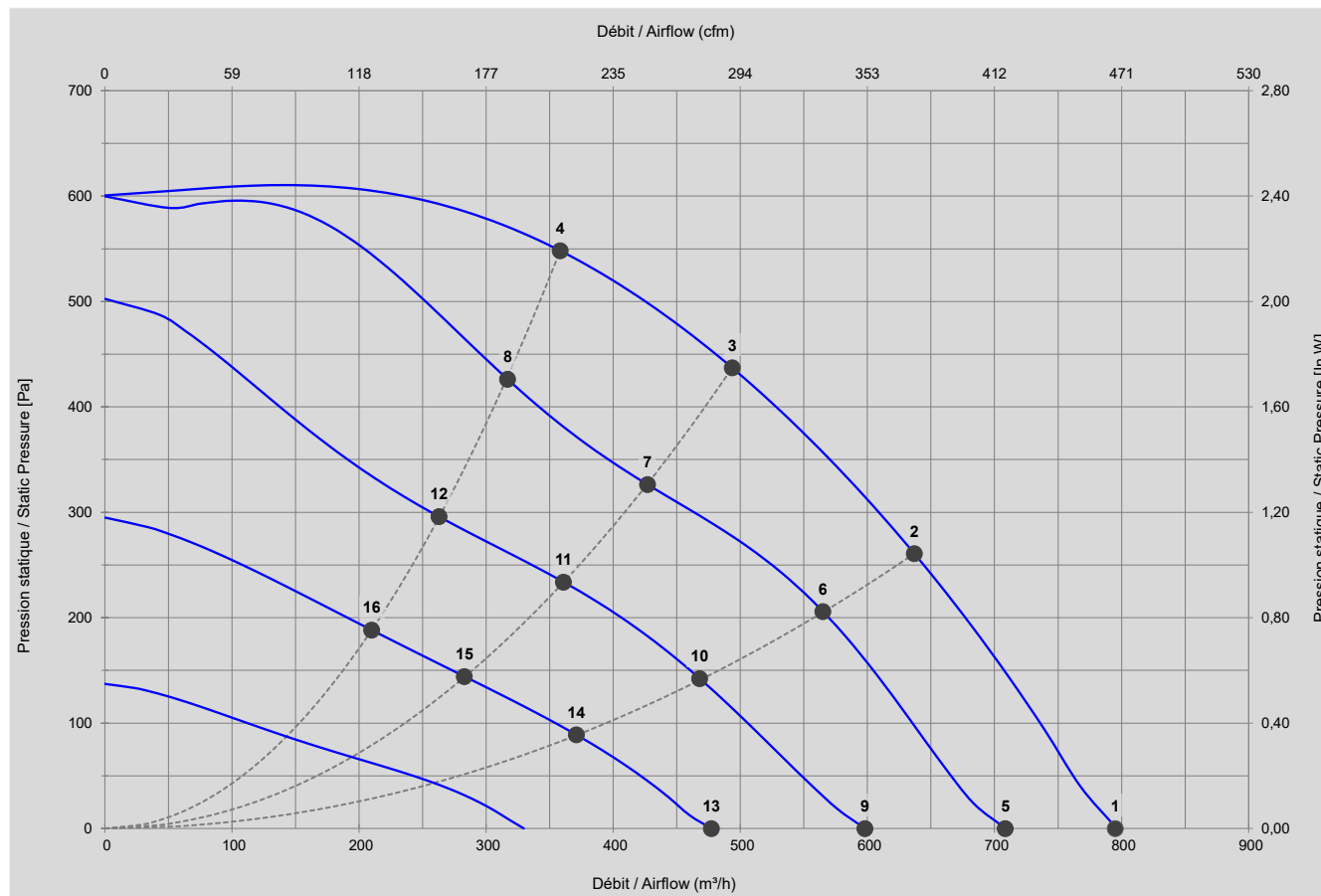
¹ at optimum energy efficiency point

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TECHNICAL DATA



Mesures / Measured Values*

	Un (V)	Vctl (V)	F (Hz)	P (W)	n (RPM)	Q (m³/h)	P (Pa)	Q (cfm)	P (In.W)	Lp _{in} (dBA)
1	230	10	50/60	149	1795	795	0	468	0,000	67
2	230	10	50/60	152	2197	637	261	375	1,045	65
3	230	10	50/60	158	2581	494	437	291	1,751	66
4	230	10	50/60	154	2876	358	548	211	2,196	68
5	230	8	50/60	102	1605	709	0	417	0,000	65
6	230	8	50/60	102	1938	565	206	333	0,825	63
7	230	8	50/60	104	2265	427	326	251	1,307	63
8	230	8	50/60	107	2561	317	426	187	1,707	66
9	230	6	50/60	61	1374	598	0	352	0,000	62
10	230	6	50/60	61	1652	468	142	275	0,570	60
11	230	6	50/60	62	1916	361	234	212	0,937	60
12	230	6	50/60	62	2139	263	296	155	1,185	63
13	230	4	50/60	31	1083	477	0	281	0,000	56
14	230	4	50/60	31	1313	371	89	218	0,356	54
15	230	4	50/60	31	1516	283	144	167	0,578	54
16	230	4	50/60	32	1699	210	188	124	0,754	57

*ρ = 1,2 kg/m³

Air performance measured according to: ISO 5801, installation category A.

Intake-side sound level: according to ISO 3744, LpA measured at 1 m distance from fan axis. The values given are only applicable under the specified measuring conditions and may differ depending on the installation conditions.

The product is manufactured in accordance with EN 60335-1, and RoHS directive 2015/863/CE
IP class according to EN 60034-5 to be checked with operation and installation

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EN - Page 4 / 4

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