Blowers and Fans with DC motors

Bosch blowers and fans have been developed to achieve the lowest possible noise level and to ensure reliable air flow across the thermal system even at low speeds. They are available worldwide in single and bulk packaging and can be used in 24V and 12V applications, e.g. for heating, ventilation and cooling.

Product features

- production in accordance with state-of-the-art automotive quality standards: For proven product quality and a long service life
- available with or without PWM technology: To attend different customer require-ments
- depending on the model, protective functions such as automatic shutdown in case of obstruction, thermal fuse and reverse polarity protec-tion: Ensure safe operation and high reliability
- operating mode S1: Suitable for continuous operation

Application examples

- **Automotive applications**
  Heating, ventilation, air-conditioning and engine cooling, cooler blowers in general
- **Industrial applications**
  Ventilation, off-highway, smart home

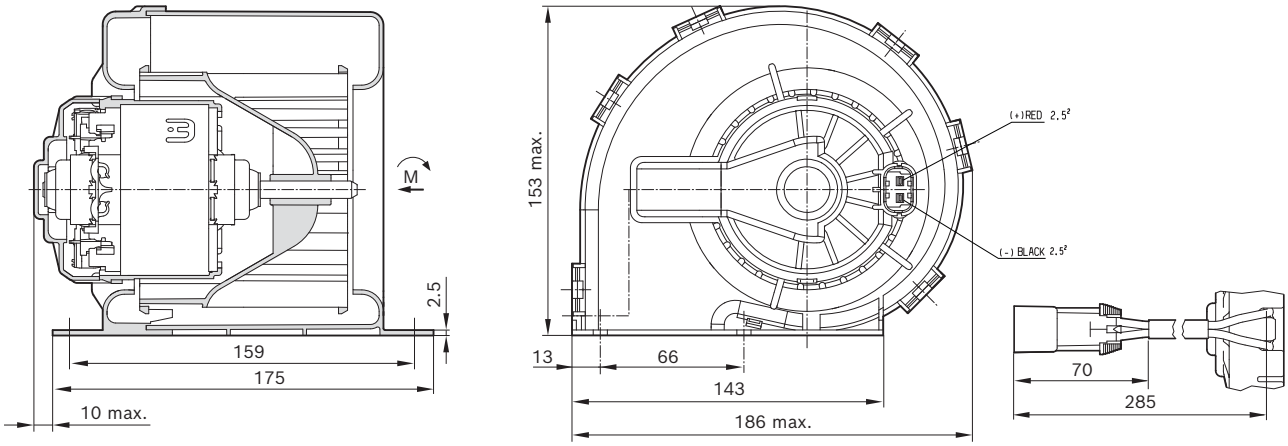
GBM-S

Family features:

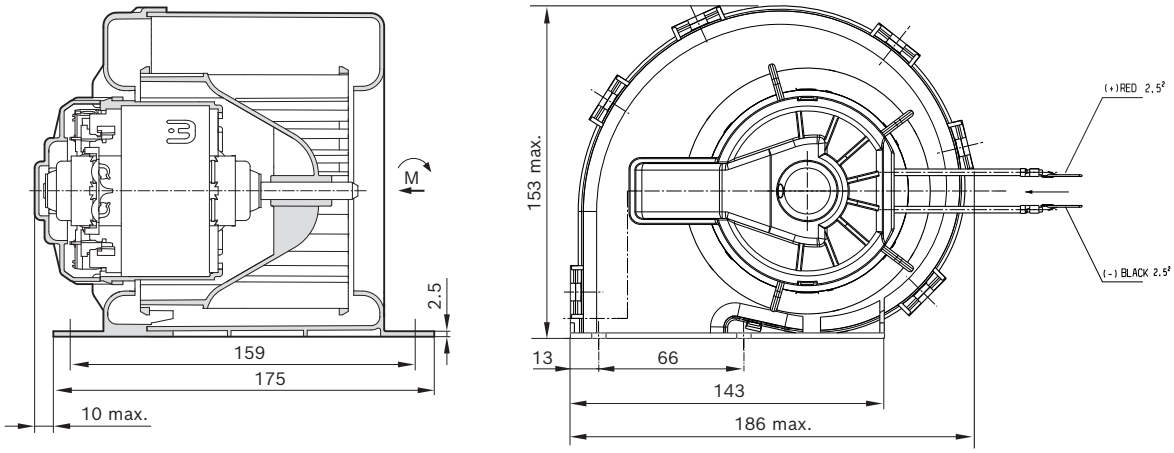
- 12/24 V ventilation module
- optimized noise performance
- high power density
- operation mode: S1
- degree of protection: IP 13

Voltage	Part number	Flow rate m^3/h	Pressure difference Pa	In (Nominal current) A	nn (Nominal speed) rpm	Direction of rotation	Signal Hall	Dimensional drawing (D)	Wiring diagram (W)	Connector (C)	Performance curve (P)
12 V	0 130 115 604	400	470	14	4468	CW	No	D1	W1	C1	P1
24 V	0 130 115 753	400	470	8	4468	CW	No	D2	W2	C2	P2

D1



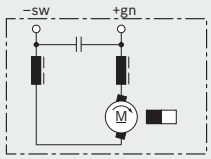
D2



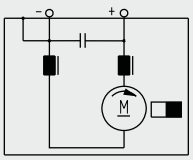
GBM-S

Wiring diagram (W)

W1

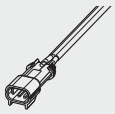


W2



Mating connector (C)

C1



Housing: Lisi F513A
Locker: –
Terminal: TE 964308-1

Black (-) Red (+)

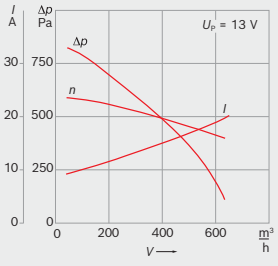
C2

Housing: –
Locker: –
Terminal: –

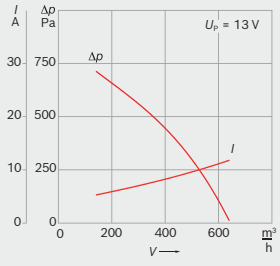
Black (-) Red (+)

Performance curve (P)

P1



P2



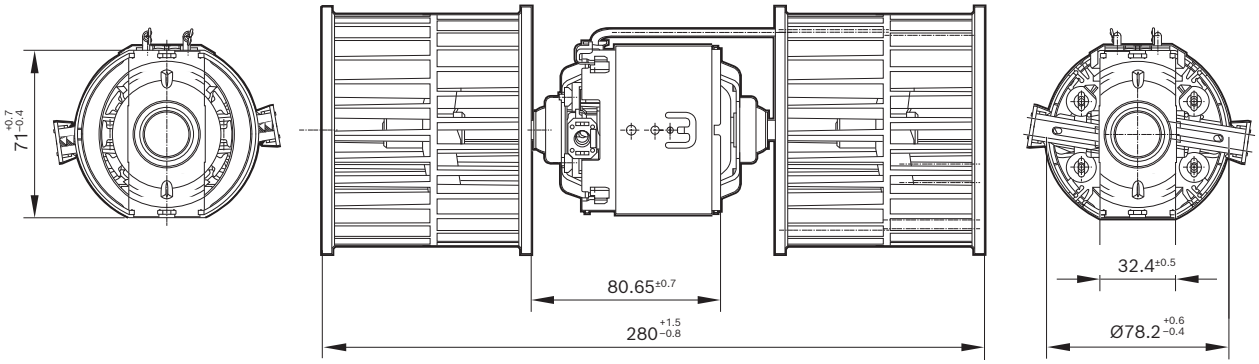
GBM-M

Family features:

- 24 V double-radial blower
- degree of protection: IP 10
- operation mode: S1

Voltage	Part number	Power W	In Nominal current) A	nn (Nominal speed) rpm	Direction of rotation	Signal Hall	Dimensional drawing (D)	Wiring diagram (W)	Performance curve (P)
24 V	F 006 B10 422	128.7	8	4100	CW	No	D1	W1	P1

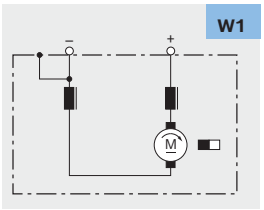
D1



GBM-M

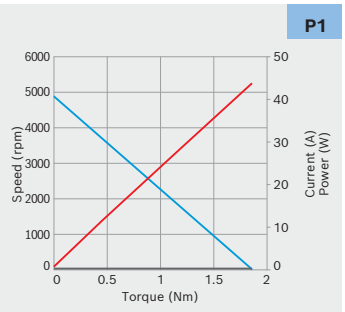
Wiring diagram (W)

W1



Performance curve (P)

P1



ECF

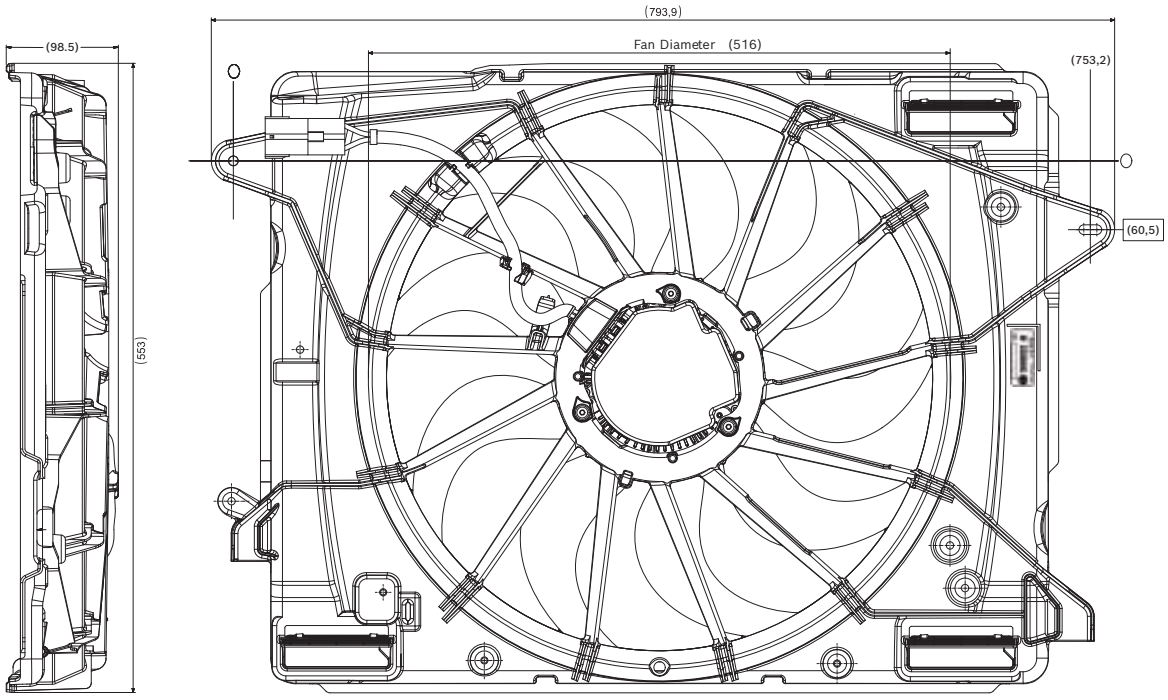
Family features:

- higher efficiency compared to prior Brush Direct Current motor (70% à 81%)
- 50% durability increase, better EMC, noise, and environmental robustness compared to BDC
- active & passive safety regarding thermal events

Voltage	Part number	Flow rate m^3/h	Pessure difference Pa	In (Nominal current) A	nn (Nominal speed) rpm	Direction of rotation	Control	Dimensional Drawing (D)	Connrctor (C)	Performance Curve (P)
12V	0 130 708 529	3600*	160	32	2140	CW	PWM	D1	C1	P1*
12V	0 130 707 509	3600*	220	42	2500	CW	PWM	D1	C2	P2*

*Performance measured at 95%PWM

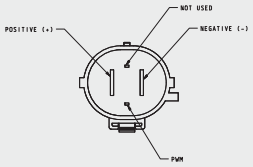
D1



ECF

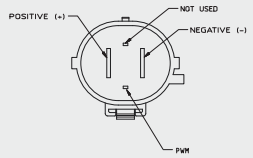
Mating connector (C)

C1



Housing: Yazaki 7283-8496-30
Locker: –
Terminal: Power 7116-3250
Signal 7116-4103-02

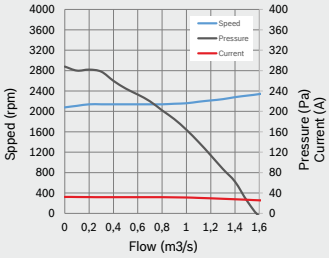
C2



Housing: Yazaki 7287-1404-10
Locker: –
Terminal: Power 7116-7473-02
Signal 7116-4103-02

Performance curve (P)

P1



P2