



- DC fans with electronically commutated external rotor motors. Fully integrated commutation electronics. With electronic protection against reverse polarity and blocking; electronic motor current limitation in the start-up phase and when rotor is blocked.

- Metal fan housing, impeller of fibre-glass reinforced plastic PA.
- Air exhaust over struts. Rotational direction CCW looking at rotor.
- Electrical connection via 2 flat pins 3 x 0.5 mm. Housing with ground lug and screw M4 x 8 (TORX).
- Mass 780 g.

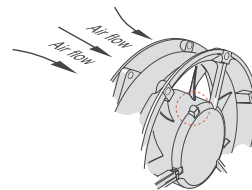
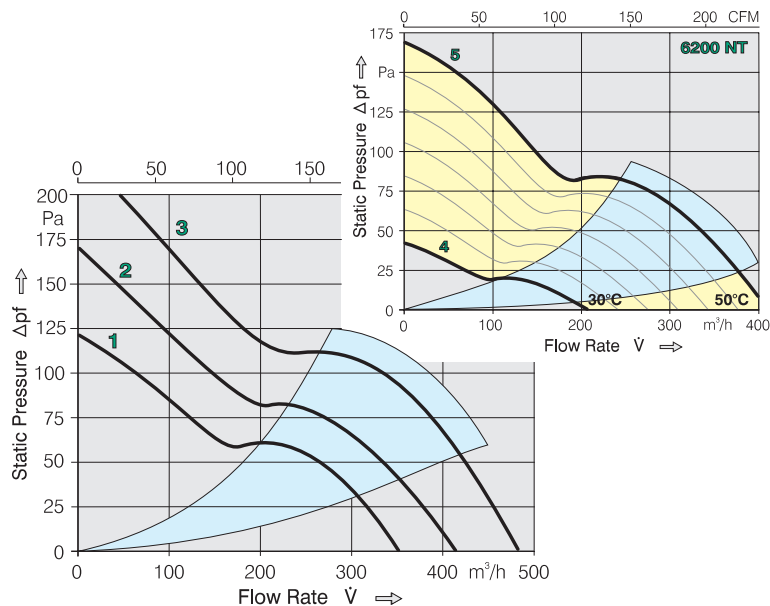
## SERIES 6200 N

172Øx51 mm

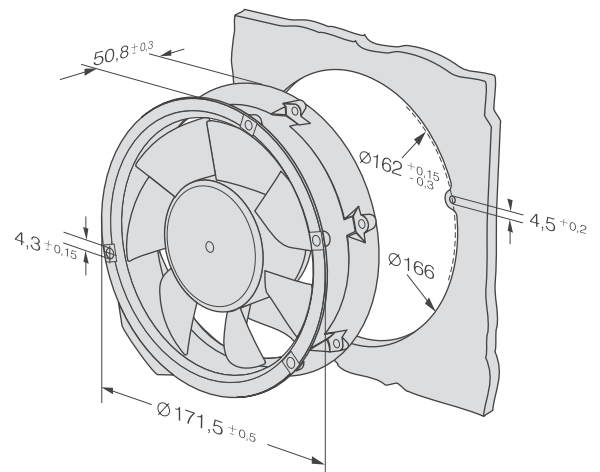
Air flow		Nominal Voltage		Noise		Sinter-Sleeve Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L <sub>10</sub>		Curve	Type
m <sup>3</sup> /h	CFM	V DC	V DC	dB(A)	bels	○/●	Watt	min <sup>-1</sup>	°C	Hours	Hours		
350	206.0	12	8...15	50	5.7	●	12.0	2850	-20...+72	80000 / 37500		1	6212 NM
350	206.0	24	12...32	50	5.7	●	12.0	2850	-20...+72	80000 / 37500		1	6224 NM
410	241.3	24	12...28	55	6.1	●	18.0	3400	-20...+72	75000 / 35000		2	6224 N
480	282.5	24	12...28	61	6.9	●	26.0	4000	-20...+72	65000 / 30000		3	6224 NH
350	206.0	48	28...60	50	5.7	●	11.5	2850	-20...+72	80000 / 37500		1	6248 NM
410	241.3	48	28...60	55	6.1	●	17.0	3400	-20...+72	75000 / 35000		2	6248 N

### Intelligent DC fans with temperature-dependent speed control

30-50 °C	205	120.6	24	12...28	35	4.5	●	8.5	1700	-10...+72	77500 / 35000	4	6224 NT
	410	241.3			55	6.1						18.0	
30-50 °C	205	120.6	48	28...60	35	4.5	●	8.5	1700	-10...+72	77500 / 35000	4	6248 NT
	410	241.3			55	6.1						17.0	



Temperature sensor (NTC-resistor) for controlling the motor speed is positioned directly in the air flow.



# TURBOFAN



- The first DC electronic fan with 3 phase EC drive and fully integrated operating electronics. For load-dependent speed control with highly intelligent motor management and power and speed reserves which open up completely new areas of application.
- Metal fan housing, impeller of fibre-glass reinforced plastic PA.
- Air exhaust over struts. CCW rotational direction looking at rotor. Reverse rotation.
- Electrical connection via leads. Housing with ground lug and screw M4 x 8 (TORX).
- Mass 820 g.

## SERIES 6200 TD

172Øx51 mm

Air flow		Nominal Voltage		Noise	Sinter-Sleeve Bearings Ball Bearings	Power Input	Nominal Speed	Temperature Range	Service Life L <sub>10</sub> at 40 °C	Curve	Type
m <sup>3</sup> /h	CFM	V DC	V DC								
90	53	48	40...55	18	●	2	800	-20...+60	70000	1	6248 TD
600	353			64		50	5100			2	

### TD Fan drive

The extremely compact drive unit with micro-processor controlled motor manager and FET power output stage is equipped with an internal speed controller. This means maximum flexibility for the user as the fan has either a voltage or speed controlled drive. It is possible to either de-energize the power output stage (motor enable) or to monitor the actual speed via an open collector frequency output. NTC connection for temperature controlled fan operation.

For setting the speed, the standard industrial interfaces are available:

- Control voltage: 0 – 10 VDC
- PWM signal: 2 KHz (0–100%)

### Description

- TD motors with excellent control behaviour and wide speed range.
- Extremely powerful motor electronics: Power and control circuit are particularly space-savily integrated on just one PCB.

- Microprocessor-controlled motor management. High operating efficiency due to FET power output stage
- Selectable rotational direction. When operating in reverse, the fan still achieves 75% of its maximum output.
- Permanent protection against blocking and peak current limiter.
- Extremely wide speed range for high air and pressure reserves.
- Maintenance-free, long-term continuous operation.
- With braking function.

