

# Technical Document

## FD 1751 48 B 40 PRH

200303



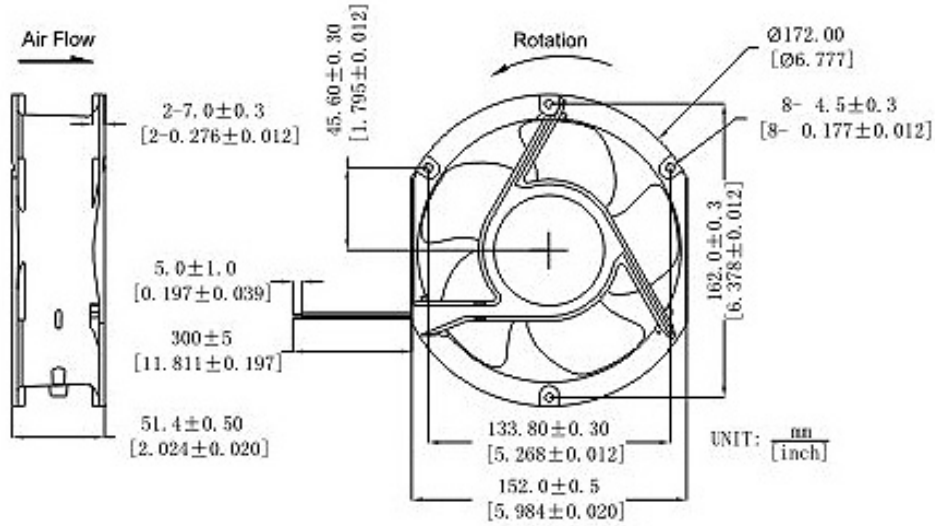
2018, Brussels

## Features

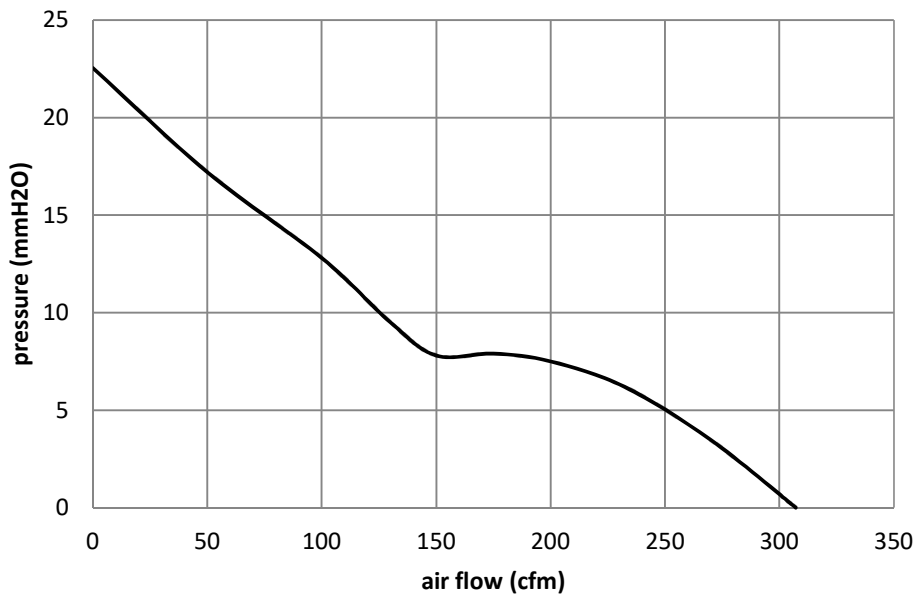
Parameter	Units	Specifications
Dimensions	mm	172x150x51
Weight	gram	720
Power Supply	VDC	48
Operating Voltage	VDC	35~58
Current	A	0.60
Power Input	W	28.80
Speed	RPM	4000
Air Flow	cfm	307.11
Static Pressure	mmH <sub>2</sub> O	22.54
Sound Level	dBA	60.5
Operating Temp.	°C	-10~+70
Life	hours	70000 @40°C, <65%RH
Bearing	-	Ball bearing
Housing Material	-	Aluminum alloy
Impeller Material	-	UL 94-0 rating thermoplastic
Other Function		RD, PWM
Electrical Connection	-	Lead wires (L)
Polarity Protection	-	Open circuit when Vcc and GND are exchanged.
Motor Protection	-	Impedance protected
Certifications	-	CE

\*: above specifications are subject to change without prior notice

## Dimensions

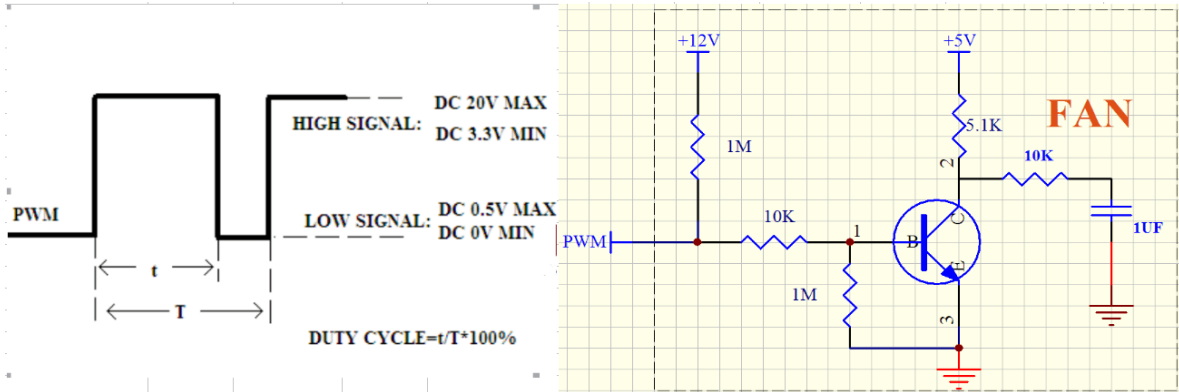


## Performance



**PWM speed control:**

Input PWM frequency range: **300hz-30Khz**

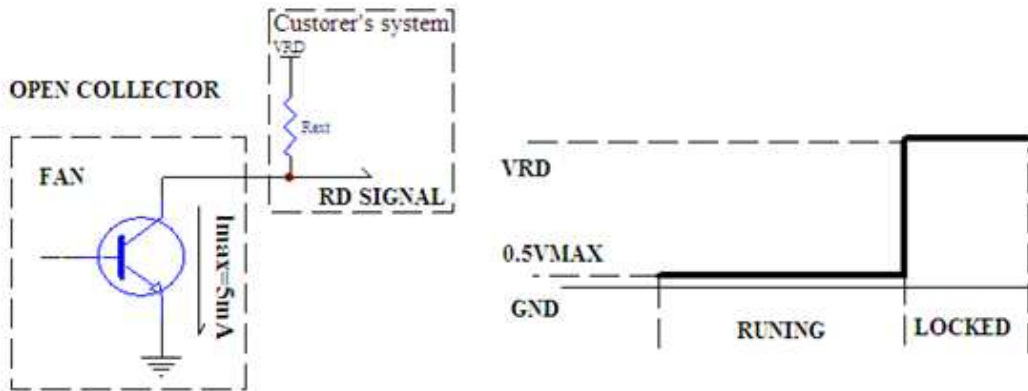


**RD detection:**

An External equipment will distinguish whether the fan is working or not through the inspection of the RD output signal. RD output circuit is in open collect mode.

**RH type:** When running, RD output is at low voltage level (Vce); when locked, output is at high voltage level (VRD). Choose Rext careful to avoid damaging the circuit.

**VRD= 19V<sub>max</sub>**     $I_{max}=5 \text{ mA}$      $R_{ext} (\text{min}) = VRD/I_{max}$      $V_{ce}=0.5V_{max}$



**Ordering Code:**

Model	Part Number	Description
FD1751 48 B 40 PRH	200303	DC172x150x51 fan, ball bearing, 4000 rpm, with PWM and rotation detection functions.