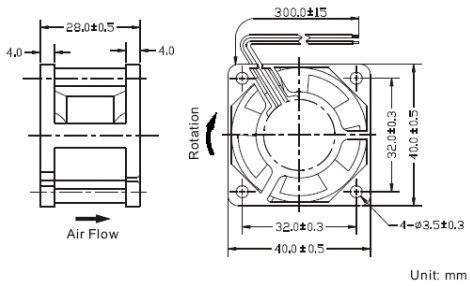
DC Fan

RD4028 Series — 40 x 40 x 28mm (1.57 x 1.57 x 1.1in)

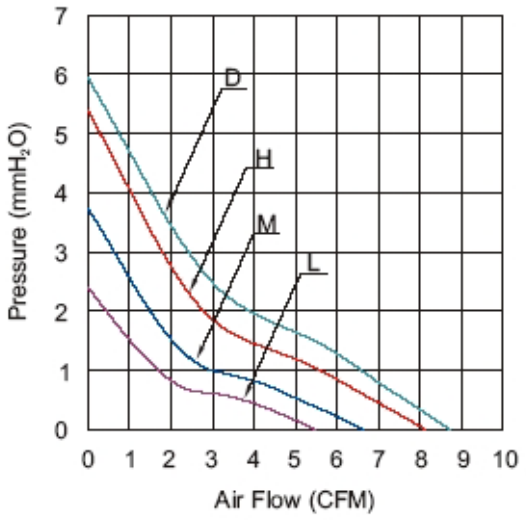


Unit: mm

Dimensions are in millimeters.

PART NO.	BEARINGS ●=Ball ○=Sleeve	VOLTAGE (V)	RANGE (VDC)	CURRENT (A)	SPEED (RPM)	AIR FLOW (Q) (m^3/min)	AIR FLOW (Q) (CFM)	PRESSURE (P) (mmAq)	PRESSURE (P) (inH_2O)	NOISE (dBA)
RDH4028B5	●	5	3.5~5.75	0.35	7500	0.26	9.4	6.0	0.23	32
RDH4028S5	○	5	3.5~5.75	0.35	7500	0.26	9.4	6.0	0.23	32
RDM4028B5	●	5	3.5~5.75	0.30	6500	0.23	8.2	4.7	0.18	28
RDM4028S5	○	5	3.5~5.75	0.30	6500	0.23	8.2	4.7	0.18	28
RDL4028B5	●	5	3.5~5.75	0.22	5000	0.17	6.1	3.5	0.14	23
RDL4028S5	○	5	3.5~5.75	0.22	5000	0.17	6.1	3.5	0.14	23
RDH4028B	●	12	6.0~13.8	0.20	8800	0.31	11.2	8.1	0.32	36
RDH4028S	○	12	6.0~13.8	0.20	8800	0.31	11.2	8.1	0.32	36
RDM4028B	●	12	6.0~13.8	0.18	8000	0.28	10.1	6.8	0.26	33
RDM4028S	○	12	6.0~13.8	0.18	8000	0.28	10.1	6.8	0.26	33
RDL4028B	●	12	6.0~13.8	0.12	5000	0.17	6.1	3.5	0.14	23
RDL4028S	○	12	6.0~13.8	0.12	5000	0.17	6.1	3.5	0.14	23
RDH4028B2	●	24	12~27.6	0.16	8800	0.31	11.2	8.1	0.32	36
RDH4028S2	○	24	12~27.6	0.16	8800	0.31	11.2	8.1	0.32	36
RDM4028B2	●	24	12~27.6	0.12	8000	0.28	10.1	6.8	0.26	33
RDM4028S2	○	24	12~27.6	0.12	8000	0.28	10.1	6.8	0.26	33
RDL4028B2	●	24	12~27.6	0.09	5000	0.17	6.1	3.5	0.14	23
RDL4028S2	○	24	12~27.6	0.09	5000	0.17	6.1	3.5	0.14	23

Performance Curves



Specifications subject to change without notice.

Electrical Specifications

Dielectric Strength:	500VAC (1mA/1min) or 600VAC (2 sec)	Frame to lead wires
Insulation Resistance:	>10MΩ	At 500VDC between frame and (+/-) lead wires
Motor:	Brushless DC with permanent magnet	
Tolerances:	+/-10% on rated current and speed	Power consumption of sleeve bearing may be up to 10% higher than ball bearing.

Mechanical Specifications

Airflow Direction:	Air over struts
Frame:	Thermoplastic PBT (GF 30%), Class UL94V-0)
Impeller:	Thermoplastic PBT (GF 15%), Class UL94V-0)
Lead Wires (L):	UL1007, 24AWG/260mm; Red(+); Black (-)
Weight:	36g (1.27oz)
Rotation:	Counterclockwise viewed from impeller
Life Expectancy:	Ball: 50,000 hrs. @25°C T_A (Sleeve: 30,000 hrs. @25°C T_A)

Environmental Specifications

Operating Temperature:	-10 to +70°C	At 35-85% relative humidity
Storage Temperature:	-40 to +80°C	At 35-85% relative humidity
Acoustical:	Anechoic chamber at free air.	Measured at 1 meter from the fan and perpendicular to the direction of the airflow.

Optional Features

	Auto-Start (AS) – standard	Protects fan if obstructed by an external object.	
	Tachometer	Informs user of fan running speed.	
	Rotation Detection	Detects whether fan is running or has stopped.	

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PELONIS TECHNOLOGIES, INC.