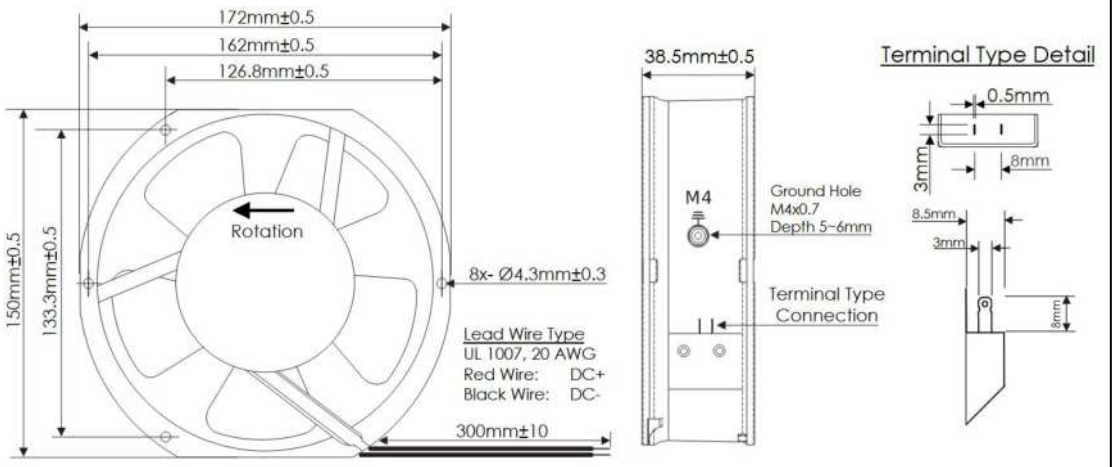
OD172SAPL Series

DC Fans - 12, 24, 48V
172 x 150 x 38.5mm (6.7” x 5.9” x 1.5”)





Frame	Die Cast Aluminum, Black Finish
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Wire Leads, 20 AWG, or Terminals
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500VDC

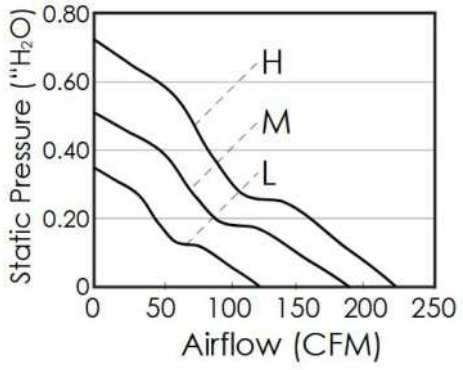
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

Life Expectancy
90,000 Hours (L10 at 35°C)

Available Options
PWM Speed Control Input
Tachometer Output
IP Ratings

Weight: 1.7 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD172SAPL-12H*B	12	10 ~ 13.8	22.8	1.90	3950	224.2	55.3	0.73
OD172SAPL-12M*B	12	10 ~ 13.8	13.2	1.10	3225	188.6	45.7	0.51
OD172SAPL-12L*B	12	10 ~ 13.8	5.40	0.45	1950	120.0	40.1	0.35
OD172SAPL-24H*B	24	22 ~ 26.4	23.3	0.97	3950	224.2	55.3	0.73
OD172SAPL-24M*B	24	22 ~ 26.4	12.5	0.52	3225	188.6	45.7	0.51
OD172SAPL-24L*B	24	22 ~ 26.4	4.80	0.20	1950	120.0	40.1	0.35
OD172SAPL-48H*B	48	40 ~ 52.0	23.0	0.48	3950	224.2	55.3	0.73
OD172SAPL-48M*B	48	40 ~ 52.0	14.4	0.30	3225	188.6	45.7	0.51
OD172SAPL-48L*B	48	40 ~ 52.0	5.76	0.12	1950	120.0	40.1	0.35

* Substitute “T” for Terminal power connection type, or “W” for Lead Wire power connection type.

Knight Electronics, Inc.
10557 Metric Drive
Dallas, TX 75243
214-340-0265

Revised 10/1/2024
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c UL us E170149 CE UKCA RoHS TÜV

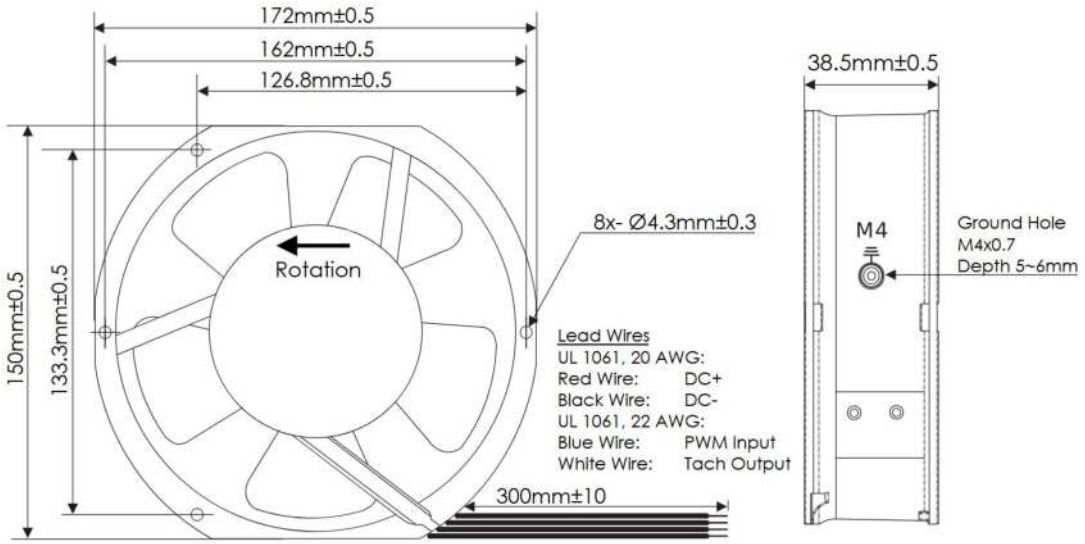
Orion Fans

Information and data is subject to change without prior notification

OD172SAPL Series with Tach and PWM

DC Fans - 12, 24, 48V
172 x 150 x 38.5mm (6.7” x 5.9” x 1.5”)



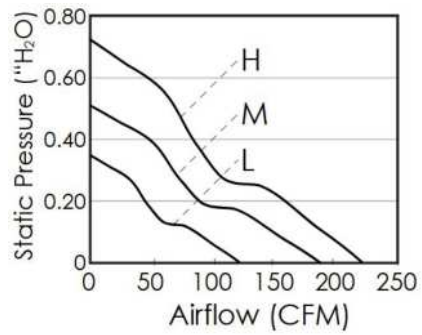


Frame	Die Cast Aluminum, Black Finish
Impeller	PBT, UL94 V-0 Plastic
Connection	4x Wire Leads, 20/22 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500VDC

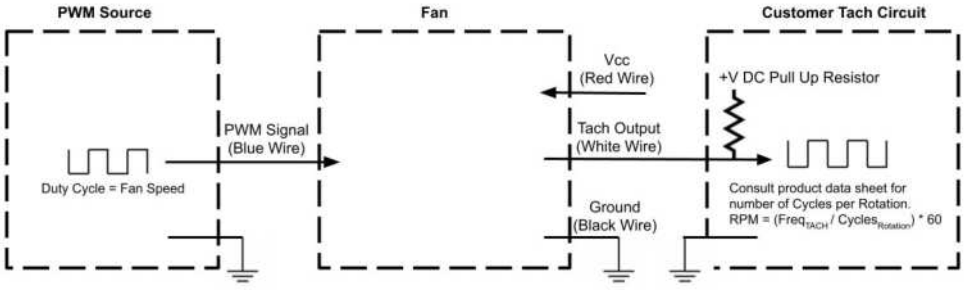
Operating Temperature
-20°C ~ +65°C
Storage Temperature
-20°C ~ +75°C
Life Expectancy
90,000 Hours (L10 at 35°C)

Installed Options
PWM Speed Control Input
Open Collector Tach Output

Weight: 1.7 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD172SAPL-12HB10A	12	10 ~ 13.8	22.8	1.90	3950	224.2	55.3	0.73
OD172SAPL-12MB10A	12	10 ~ 13.8	13.2	1.10	3225	188.6	45.7	0.51
OD172SAPL-12LB10A	12	10 ~ 13.8	5.40	0.45	1950	120.0	40.1	0.35
OD172SAPL-24HB10A	24	22 ~ 26.4	23.3	0.97	3950	224.2	55.3	0.73
OD172SAPL-24MB10A	24	22 ~ 26.4	12.5	0.52	3225	188.6	45.7	0.51
OD172SAPL-24LB10A	24	22 ~ 26.4	4.80	0.20	1950	120.0	40.1	0.35
OD172SAPL-48HB10A	48	40 ~ 52.0	23.0	0.48	3950	224.2	55.3	0.73
OD172SAPL-48MB10A	48	40 ~ 52.0	14.4	0.30	3225	188.6	45.7	0.51
OD172SAPL-48LB10A	48	40 ~ 52.0	5.76	0.12	1950	120.0	40.1	0.35



PWM Max High Voltage:	5V
PWM Max Sink Current:	5mA
PWM Frequency Range:	1KHz-100KHz
PWM Typical Frequency:	25KHz
RPM at 0% Duty Cycle:	0 RPM
RPM if PWM disconnect:	Max
Tach Max Pullup Voltage:	Fan Vcc
Tach Max Sink Current:	5mA
Tach Cycles per Rotation:	2

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