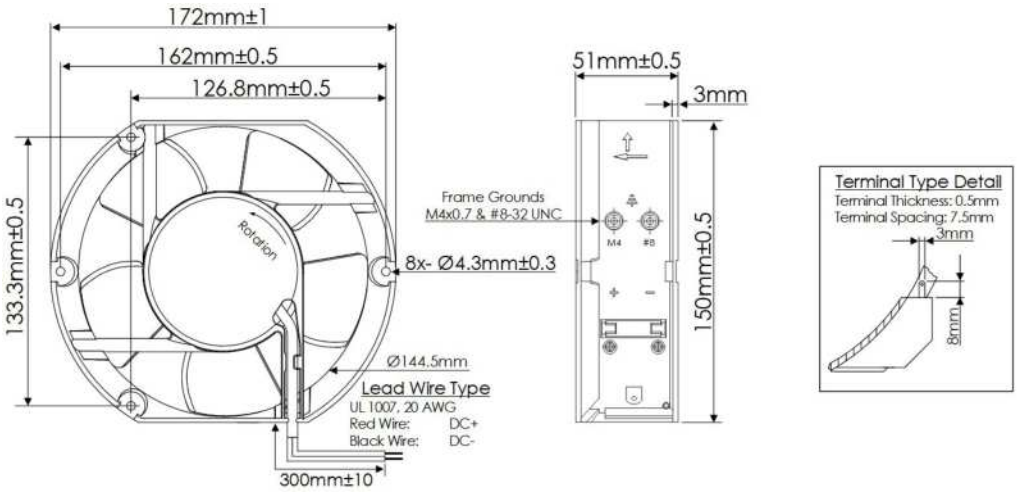
OD172SAP Series

DC Fans - 12, 24, 48V
172mm x 152mm x 51mm
(6.7” x 5.9” x 2.0”)





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

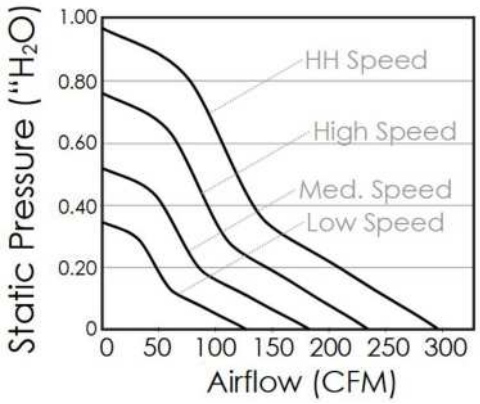
Operating Temperature
-25°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

Available Options
Tachometer Output
PWM Speed Control Input
Thermal Speed Control
0-10V Speed Control
Alarm Output
IP Ratings

Weight: 1.8 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)
OD172SAP-12HH*B	12	10 ~ 13.2	50.4	4.20	3800	290	56	0.95
OD172SAP-12H*B	12	10 ~ 13.2	23.0	1.90	3200	230	52	0.77
OD172SAP-12M*B	12	10 ~ 13.2	13.2	1.10	2500	180	42	0.51
OD172SAP-12L*B	12	10 ~ 13.2	5.5	0.45	1600	125	32	0.35
OD172SAP-24HH*B	24	22 ~ 26.4	50.4	2.10	3850	300	56	0.95
OD172SAP-24H*B	24	22 ~ 26.4	24.0	0.97	3200	235	52	0.77
OD172SAP-24M*B	24	22 ~ 26.4	13.0	0.52	2500	180	42	0.51
OD172SAP-24L*B	24	22 ~ 26.4	5.0	0.20	1600	125	32	0.35
OD172SAP-48HH*B	48	40 ~ 52.0	49.4	1.03	3850	300	56	0.95
OD172SAP-48H*B	48	40 ~ 52.0	24.0	0.48	3200	235	52	0.77
OD172SAP-48M*B	48	40 ~ 52.0	14.5	0.30	2500	180	42	0.51
OD172SAP-48L*B	48	40 ~ 52.0	5.8	0.12	1600	125	32	0.35

* Insert “T” for Terminal type power connection, or blank for Wire Lead type power connection. For Terminal power connection, observe frame polarity markings.

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Dallas, TX 75243
214-340-0265

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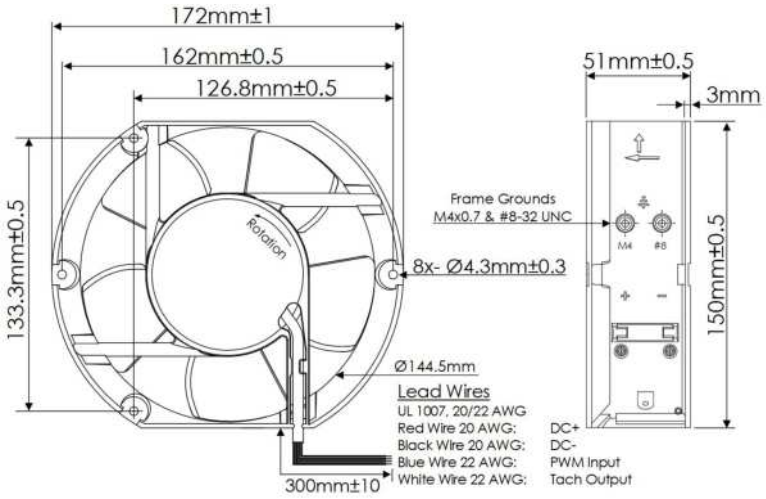
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Orion Fans
Information and data is subject to change without prior notification

OD172SAP Series with PWM and Tach

DC Fans - 12, 24, 48V
172mm x 152mm x 51mm
(6.7” x 5.9” x 2.0”)





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

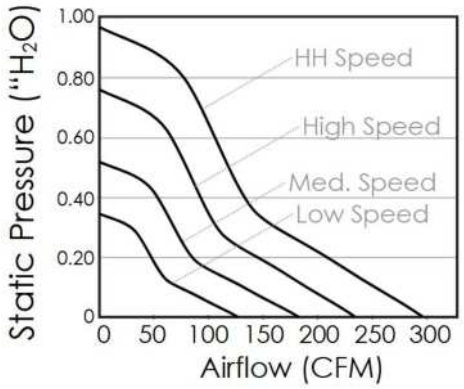
Operating Temperature
-25°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

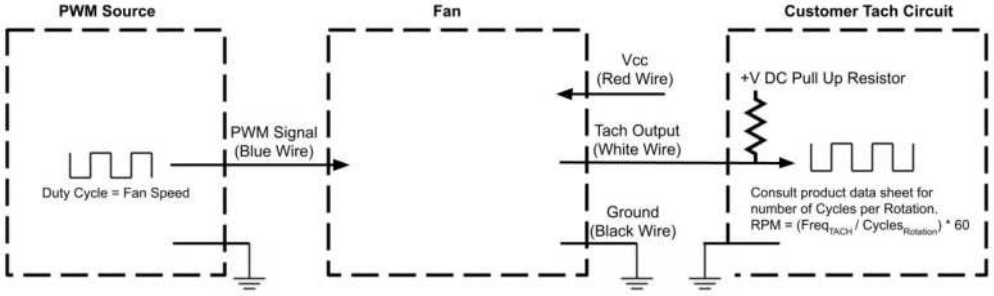
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
PWM Speed Control Input
Open Collector Tach Output

Weight: 1.8 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)
OD172SAP-12HHB10A	12	10 ~ 13.2	50.4	4.20	3800	290	56	0.95
OD172SAP-12HB10A	12	10 ~ 13.2	23.0	1.90	3200	230	52	0.77
OD172SAP-12MB10A	12	10 ~ 13.2	13.2	1.10	2500	180	42	0.51
OD172SAP-12LB10A	12	10 ~ 13.2	5.5	0.45	1600	125	32	0.35
OD172SAP-24HHB10A	24	22 ~ 26.4	50.4	2.10	3850	300	56	0.95
OD172SAP-24HB10A	24	22 ~ 26.4	24.0	0.97	3200	235	52	0.77
OD172SAP-24MB10A	24	22 ~ 26.4	13.0	0.52	2500	180	42	0.51
OD172SAP-24LB10A	24	22 ~ 26.4	5.0	0.20	1600	125	32	0.35
OD172SAP-48HHB10A	48	40 ~ 52.0	49.4	1.03	3850	300	56	0.95
OD172SAP-48HB10A	48	40 ~ 52.0	24.0	0.48	3200	235	52	0.77
OD172SAP-48MB10A	48	40 ~ 52.0	14.5	0.30	2500	180	42	0.51
OD172SAP-48LB10A	48	40 ~ 52.0	5.8	0.12	1600	125	32	0.35



PWM Max High Voltage:	5.5V
PWM Max Sink Current:	5mA
PWM Frequency Range:	1KHz-100KHz
PWM Typical Frequency:	25KHz
RPM at 0% Duty Cycle:	0 RPM

RPM will be full speed if PWM input is disconnected.
RPM will be 0 if PWM input is 0V or grounded.

Tach Max Pullup Voltage:	Fan Vcc
Tach Max Sink Current:	5mA
Tach Cycles per Rotation:	2

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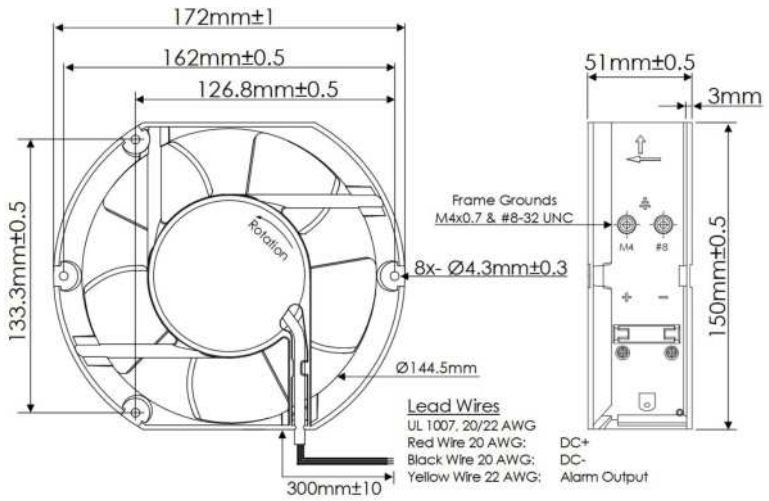
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Orion Fans
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OD172SAP Series with Alarm

DC Fans - 12, 24, 48V
172mm x 152mm x 51mm
(6.7” x 5.9” x 2.0”)





Frame	Die Cast Aluminum, Black Finish
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 20/22 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500V DC

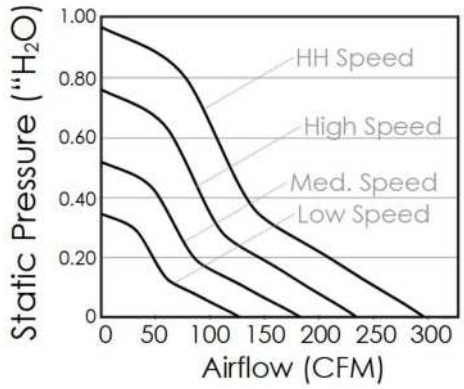
Operating Temperature
-25°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

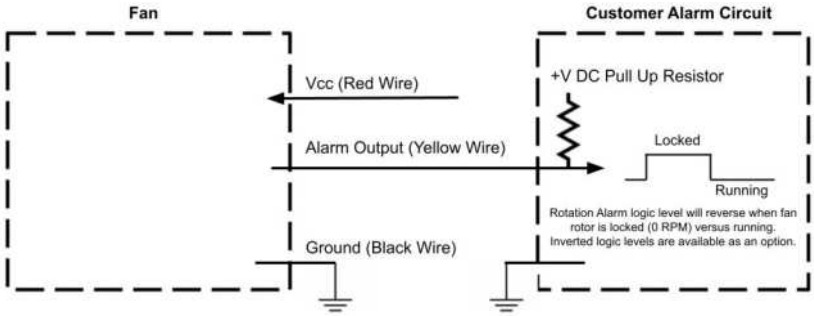
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
Open Collector Alarm Output

Weight: 1.8 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)
OD172SAP-12HHB02A	12	10 ~ 13.2	50.4	4.20	3800	290	56	0.95
OD172SAP-12HB02A	12	10 ~ 13.2	23.0	1.90	3200	230	52	0.77
OD172SAP-12MB02A	12	10 ~ 13.2	13.2	1.10	2500	180	42	0.51
OD172SAP-12LB02A	12	10 ~ 13.2	5.5	0.45	1600	125	32	0.35
OD172SAP-24HHB02A	24	22 ~ 26.4	50.4	2.10	3850	300	56	0.95
OD172SAP-24HB02A	24	22 ~ 26.4	24.0	0.97	3200	235	52	0.77
OD172SAP-24MB02A	24	22 ~ 26.4	13.0	0.52	2500	180	42	0.51
OD172SAP-24LB02A	24	22 ~ 26.4	5.0	0.20	1600	125	32	0.35
OD172SAP-48HHB02A	48	40 ~ 52.0	49.4	1.03	3850	300	56	0.95
OD172SAP-48HB02A	48	40 ~ 52.0	24.0	0.48	3200	235	52	0.77
OD172SAP-48MB02A	48	40 ~ 52.0	14.5	0.30	2500	180	42	0.51
OD172SAP-48LB02A	48	40 ~ 52.0	5.8	0.12	1600	125	32	0.35



Alarm Max Pullup Voltage: Fan Vcc
Alarm Max Sink Current: 5mA
Alarm Active Logic State: HIGH

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