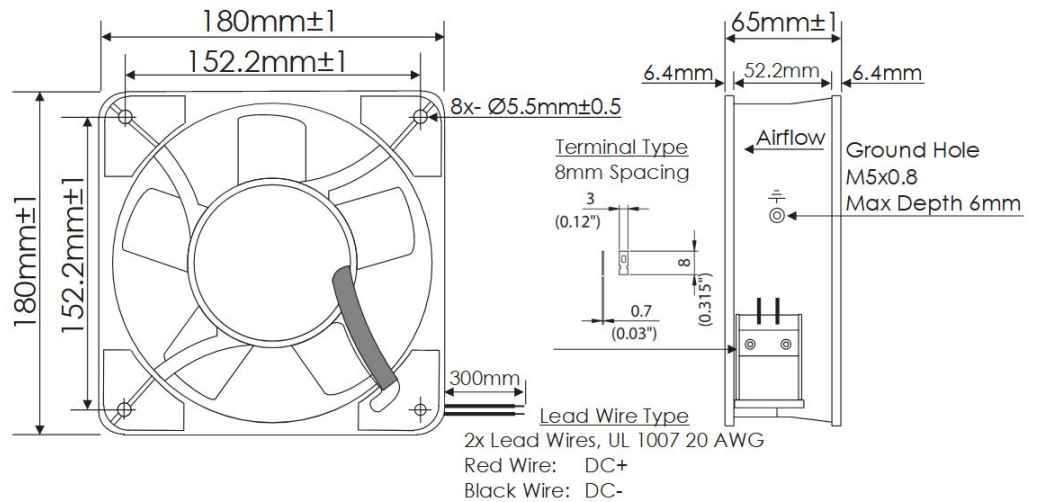


OD180APL Series



DC Fans - 12, 24, 48V
180mm x 180mm x 65mm (7" x 2.5")



Frame	Die Cast Aluminum, Black Finish	<u>Operating Temperature</u> -20°C ~ +65°C	
Impeller	PBT, UL94 V-0 Plastic	<u>Storage Temperature</u> -20°C ~ +75°C	
Connection	2x Wire Leads, 20 AWG, or Terminals	<u>Life Expectancy</u> 60,000 Hours (L10 at 40°C)	
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected	<u>Available Options</u> PWM Speed Control Input Thermal Speed Control Tachometer Output Alarm Output IP Ratings	
Bearing System	Ball Bearings	Weight: 3.2 lbs.	
Dielectric Strength	500VDC/min, <5mA		
Insulation Resistance	≥10M Ohm @ 500 VDC		

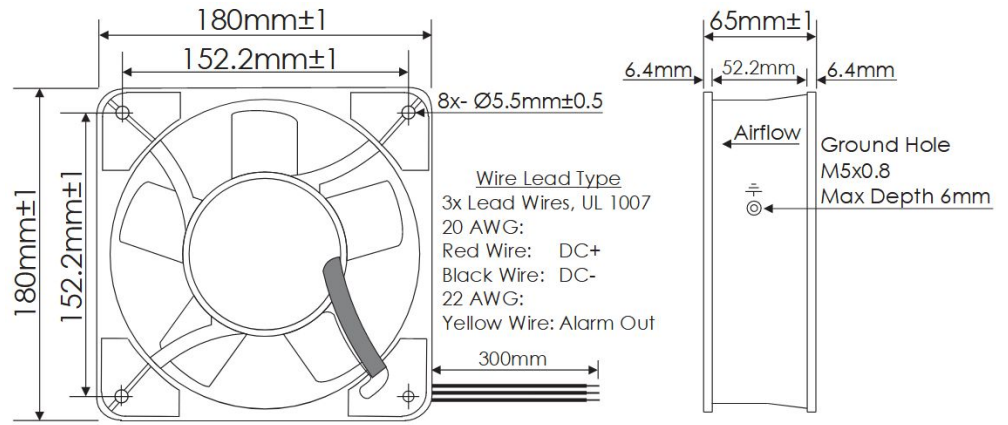
Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Rated Current (Amps)(Max)	Rated Power (Watts)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H ₂ O)
OD180APL-12H*B	12	9 ~ 13.8	4.20	50.4	3375	460	65.2	1.10
OD180APL-12M*B	12	9 ~ 13.8	1.90	23.5	2800	375	53.4	0.70
OD180APL-12L*B	12	9 ~ 13.8	1.50	19.0	2150	300	46.1	0.58
OD180APL-24H*B	24	20 ~ 26.4	2.50	60.2	3375	460	65.2	1.10
OD180APL-24M*B	24	20 ~ 26.4	1.15	27.6	2800	375	53.4	0.70
OD180APL-24L*B	24	20 ~ 26.4	0.62	15.6	2150	300	46.1	0.58
OD180APL-48H*B	48	28 ~ 52.0	1.03	49.4	3375	460	65.2	1.10
OD180APL-48M*B	48	28 ~ 52.0	0.48	24.2	2800	375	53.4	0.70
OD180APL-48L*B	48	28 ~ 52.0	0.30	14.4	2150	300	46.1	0.58

* Insert letter "T" for Terminal connection type

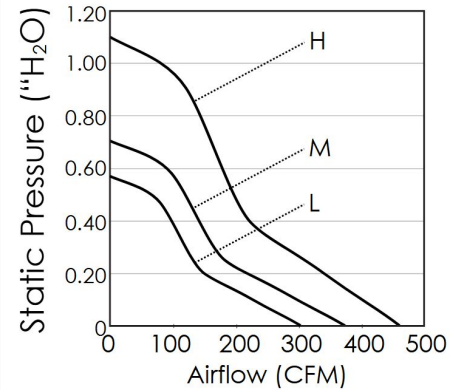
OD180APL Series with Alarm



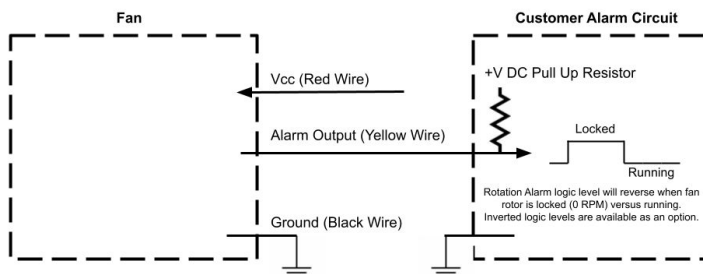
DC Fans - 12, 24, 48V
180mm x 180mm x 65mm (7" x 2.5")



Frame	Die Cast Aluminum, Black Finish	Operating Temperature -20°C ~ +65°C Storage Temperature -20°C ~ +75°C Life Expectancy 60,000 Hours (L10 at 40°C) Installed Options Open Collector Alarm Output Available Options Inverted Alarm Type Weight: 3.2 lbs
Impeller	PBT, UL94 V-0 Plastic	
Connection	3x Wire Leads, 20/22 AWG	
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected	
Bearing System	Ball Bearings	
Dielectric Strength	500VDC/min, <5mA	
Insulation Resistance	≥10M Ohm @ 500 VDC	



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Rated Current (Amps)(Max)	Rated Power (Watts)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H ₂ O)
OD180APL-12HB02A	12	9 ~ 13.8	4.20	50.4	3375	460	65.2	1.10
OD180APL-12MB02A	12	9 ~ 13.8	1.90	23.5	2800	375	53.4	0.70
OD180APL-12LB02A	12	9 ~ 13.8	1.50	19.0	2150	300	46.1	0.58
OD180APL-24HB02A	24	20 ~ 26.4	2.50	60.2	3375	460	65.2	1.10
OD180APL-24MB02A	24	20 ~ 26.4	1.15	27.6	2800	375	53.4	0.70
OD180APL-24LB02A	24	20 ~ 26.4	0.62	15.6	2150	300	46.1	0.58
OD180APL-48HB02A	48	28 ~ 52.0	1.03	49.4	3375	460	65.2	1.10
OD180APL-48MB02A	48	28 ~ 52.0	0.48	24.2	2800	375	53.4	0.70
OD180APL-48LB02A	48	28 ~ 52.0	0.30	14.4	2150	300	46.1	0.58



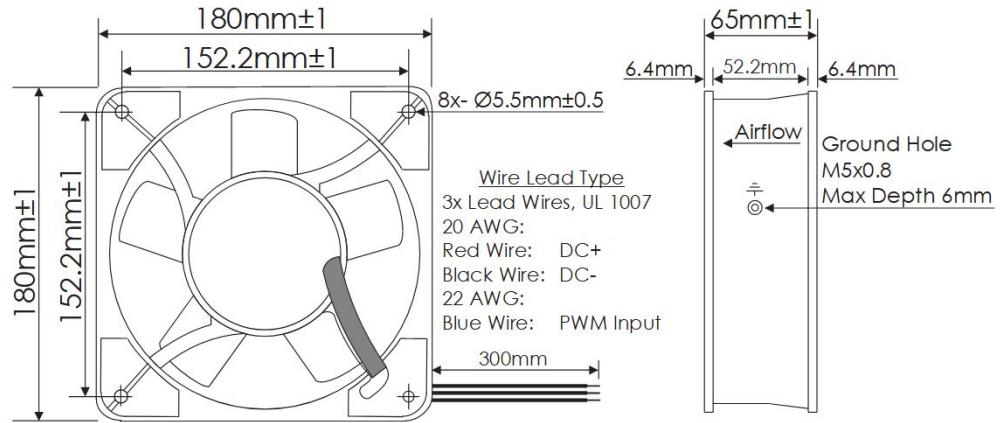
Alarm Max Pullup Voltage:
Alarm Max Sink Current:
Alarm ACTIVE (0 RPM) State:

Fan Vcc
5mA
HIGH

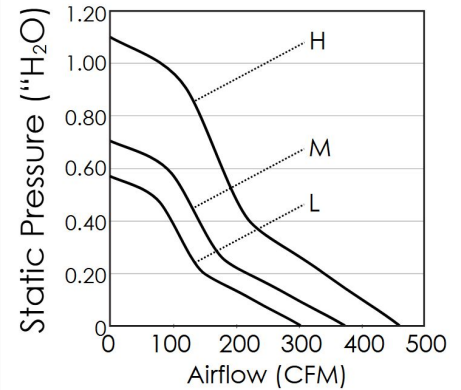
OD180APL Series with PWM



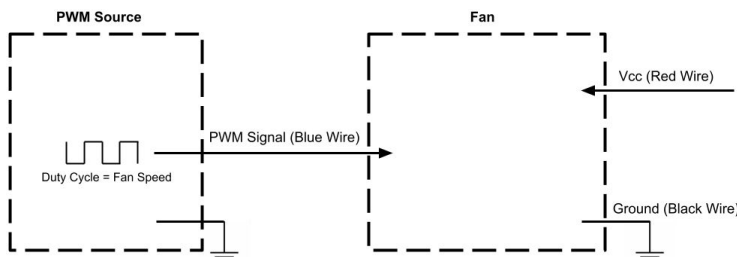
DC Fans - 12, 24, 48V
180mm x 180mm x 65mm (7" x 2.5")



Frame	Die Cast Aluminum, Black Finish	Operating Temperature -20°C ~ +65°C Storage Temperature -20°C ~ +75°C Life Expectancy 60,000 Hours (L10 at 40°C) Installed Options PWM Speed Control Input Available Options 0-10V Speed Control Input Weight: 3.2 lbs
Impeller	PBT, UL94 V-0 Plastic	
Connection	3x Wire Leads, 20/22 AWG	
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected	
Bearing System	Ball Bearings	
Dielectric Strength	500VDC/min, <5mA	
Insulation Resistance	≥10M Ohm @ 500 VDC	



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Rated Current (Amps)(Max)	Rated Power (Watts)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H ₂ O)
OD180APL-12HB05	12	9 ~ 13.8	4.20	50.4	3375	460	65.2	1.10
OD180APL-12MB05	12	9 ~ 13.8	1.90	23.5	2800	375	53.4	0.70
OD180APL-12LB05	12	9 ~ 13.8	1.50	19.0	2150	300	46.1	0.58
OD180APL-24HB05	24	20 ~ 26.4	2.50	60.2	3375	460	65.2	1.10
OD180APL-24MB05	24	20 ~ 26.4	1.15	27.6	2800	375	53.4	0.70
OD180APL-24LB05	24	20 ~ 26.4	0.62	15.6	2150	300	46.1	0.58
OD180APL-48HB05	48	28 ~ 52.0	1.03	49.4	3375	460	65.2	1.10
OD180APL-48MB05	48	28 ~ 52.0	0.48	24.2	2800	375	53.4	0.70
OD180APL-48LB05	48	28 ~ 52.0	0.30	14.4	2150	300	46.1	0.58



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 will be full speed if PWM input is disconnected.

Mouser Electronics

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Orion Fans:

[OD180APL-24HB](#) [OD180APL-24MB](#) [OD180APL-48MB](#) [OD180APL-48HB](#) [OD180APL-12HB](#) [OD180APL-12LB](#)
[OD180APL-12MB](#) [OD180APL-24LB](#) [OD180APL-48LB](#) [OD180APL-48MTB](#) [OD180APL-24LTB](#) [OD180APL-24MTB](#)
[OD180APL-12LTB](#) [OD180APL-12HTB](#) [OD180APL-48LTB](#) [OD180APL-48HTB](#) [OD180APL-12MTB](#) [OD180APL-24HTB](#)