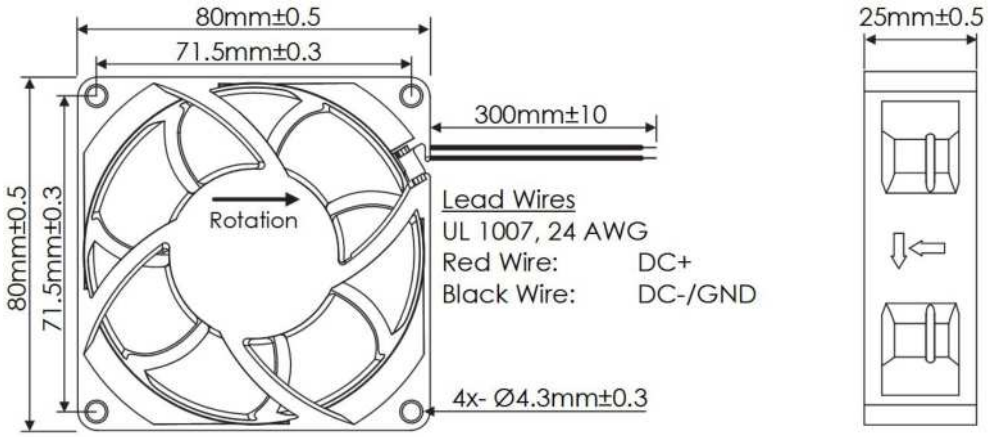
OD8025 XE Series

DC Fans - 12, 24, 48V
80mm x 25mm (3.15” x 1.00”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Lead Wires, 24 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

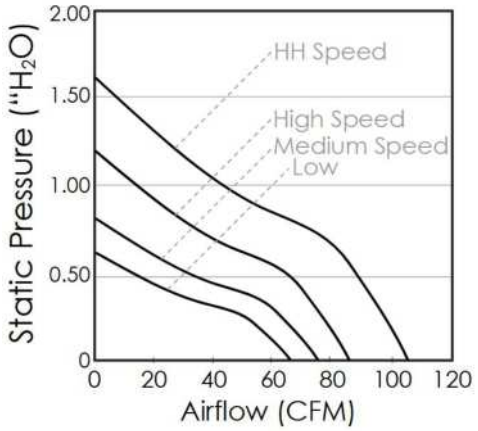
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-25°C ~ +75°C

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

Available Options
Tachometer Output
Alarm Output
PWM Speed Control Input
IP Ratings

Weight: 0.24 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(~Max)	Rated Current (Amps)(~Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dB)	Max Static Pressure ("H_2O)
OD8025-12HHBXE	12	8 ~ 13.8	19.2 (~20.5)	1.60 (~1.8)	9450	104.6	65.2	1.60
OD8025-12HBXE	12	8 ~ 13.8	11.5 (~13.2)	0.96 (~1.1)	8000	85.8	60.1	1.20
OD8025-12MBXE	12	8 ~ 13.8	8.6 (~9.6)	0.72 (~0.8)	6975	76.3	55.7	0.82
OD8025-12LBXE	12	8 ~ 13.8	6.5 (~7.2)	0.54 (~0.6)	5990	64.6	50.3	0.63
OD8025-24HHBXE	24	15 ~ 26	20.4 (~24.0)	0.85 (~1.0)	9450	104.6	65.2	1.60
OD8025-24HBXE	24	15 ~ 26	12.0 (~16.8)	0.50 (~0.7)	8000	85.8	60.1	1.20
OD8025-24MBXE	24	15 ~ 26	9.1 (~12.0)	0.38 (~0.5)	6975	76.3	55.7	0.82
OD8025-24LBXE	24	15 ~ 26	7.0 (~9.6)	0.29 (~0.4)	5990	64.6	50.3	0.63
OD8025-48HHBXE	48	28 ~ 52	21.6 (~28.8)	0.45 (~0.6)	9450	104.6	65.2	1.60
OD8025-48HBXE	48	28 ~ 52	18.2 (~24.0)	0.38 (~0.5)	8000	85.8	60.1	1.20
OD8025-48MBXE	48	28 ~ 52	13.0 (~19.2)	0.27 (~0.4)	6975	76.3	55.7	0.82
OD8025-48LBXE	48	28 ~ 52	9.6 (~14.4)	0.20 (~0.3)	5990	64.6	50.3	0.63

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Dallas, TX 75243
214-340-0265

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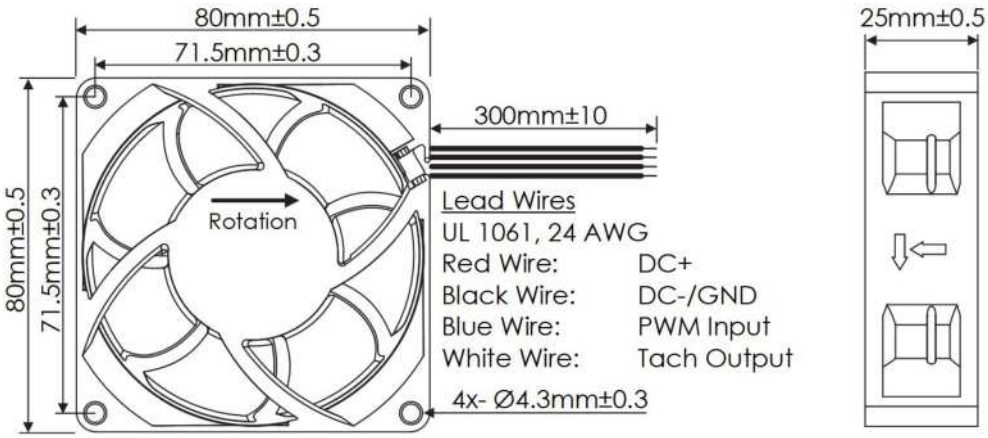
Orion Fans

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OD8025 XE Series with PWM and Tach

DC Fans - 12, 24, 48V
80mm x 25mm (3.15” x 1.00”)

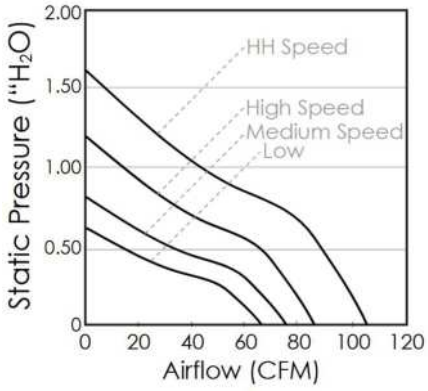




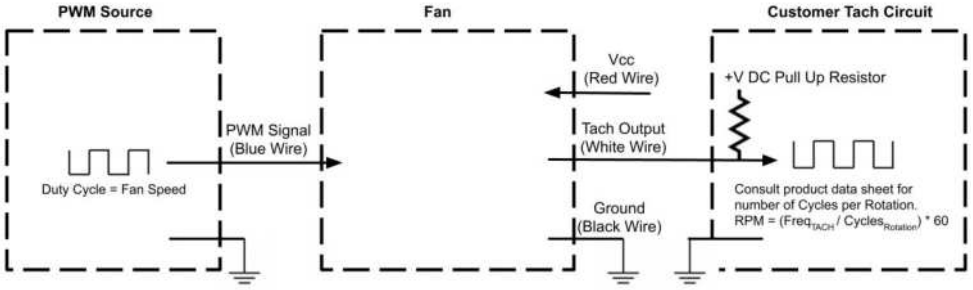
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	4x Lead Wires, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500V DC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-25°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)
Installed Options
PWM Speed Control Input
Open Collector Tach Output
Available Options
5V TTL Type Tach Output
IP Ratings

Weight: 0.24 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(~Max)	Rated Current (Amps)(~Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dB)	Max Static Pressure ("H_2O)
OD8025-12HHBXE10A	12	8 ~ 13.8	19.2 (~20.5)	1.60 (~1.8)	9450	104.6	65.2	1.60
OD8025-12HBXE10A	12	8 ~ 13.8	11.5 (~13.2)	0.96 (~1.1)	8000	85.8	60.1	1.20
OD8025-12MBXE10A	12	8 ~ 13.8	8.6 (~9.6)	0.72 (~0.8)	6975	76.3	55.7	0.82
OD8025-12LBXE10A	12	8 ~ 13.8	6.5 (~7.2)	0.54 (~0.6)	5990	64.6	50.3	0.63
OD8025-24HHBXE10A	24	15 ~ 26	20.4 (~24.0)	0.85 (~1.0)	9450	104.6	65.2	1.60
OD8025-24HBXE10A	24	15 ~ 26	12.0 (~16.8)	0.50 (~0.7)	8000	85.8	60.1	1.20
OD8025-24MBXE10A	24	15 ~ 26	9.1 (~12.0)	0.38 (~0.5)	6975	76.3	55.7	0.82
OD8025-24LBXE10A	24	15 ~ 26	7.0 (~9.6)	0.29 (~0.4)	5990	64.6	50.3	0.63
OD8025-48HHBXE10A	48	28 ~ 52	21.6 (~28.8)	0.45 (~0.6)	9450	104.6	65.2	1.60
OD8025-48HBXE10A	48	28 ~ 52	18.2 (~24.0)	0.38 (~0.5)	8000	85.8	60.1	1.20
OD8025-48MBXE10A	48	28 ~ 52	13.0 (~19.2)	0.27 (~0.4)	6975	76.3	55.7	0.82
OD8025-48LBXE10A	48	28 ~ 52	9.6 (~14.4)	0.20 (~0.3)	5990	64.6	50.3	0.63



Tach Max Pullup Voltage:	Fan Vcc
Tach Max Sink Current:	8mA
Tach Cycles per Revolution:	2
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
Duty Cycle for fan startup:	25%

RPM will be full speed if PWM input is disconnected.

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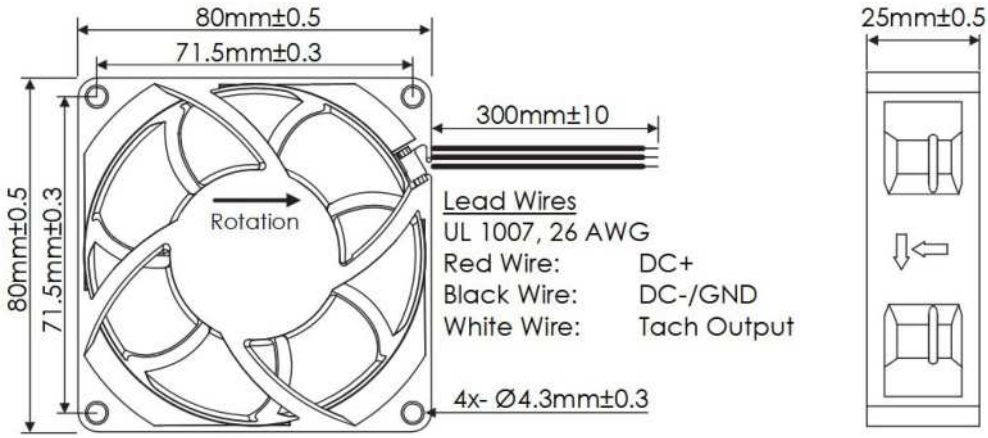
Orion Fans

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OD8025 XE Series with Tach

DC Fans - 12, 24, 48V
80mm x 25mm (3.15” x 1.00”)

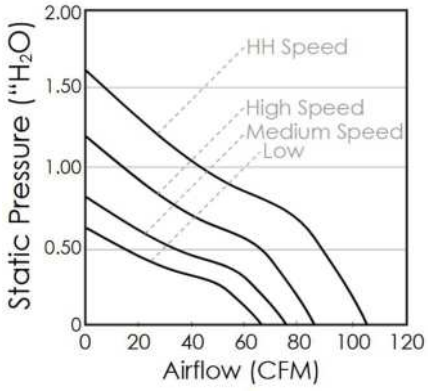




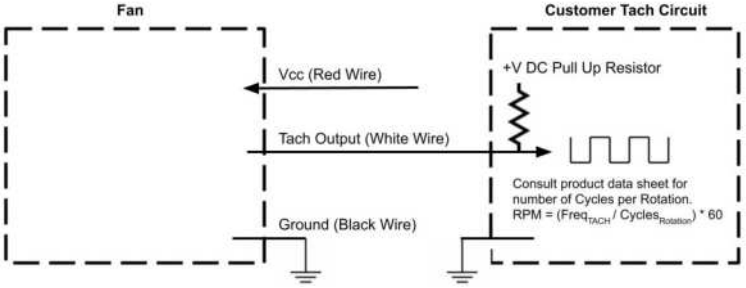
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Lead Wires, 26 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected
Bearing System	Dual Ball Bearings
Dielectric Strength	500VDC/min, <1mA
Insulation Resistance	≥10MΩ @ 500V DC

Operating Temperature
-20°C ~ +65°C
Storage Temperature
-25°C ~ +75°C
Life Expectancy
70,000 Hours (L10 at 40°C)
Installed Options
Open Collector Tach Output
Available Options
5V TTL Type Tach Output
IP Ratings

Weight: 0.24 lbs.



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)(~Max)	Rated Current (Amps)(~Max)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dB)	Max Static Pressure ("H_2O)
OD8025-12HHBXE01A	12	8 ~ 13.8	19.2 (~20.5)	1.60 (~1.8)	9450	104.6	65.2	1.60
OD8025-12HBXE01A	12	8 ~ 13.8	11.5 (~13.2)	0.96 (~1.1)	8000	85.8	60.1	1.20
OD8025-12MBXE01A	12	8 ~ 13.8	8.6 (~9.6)	0.72 (~0.8)	6975	76.3	55.7	0.82
OD8025-12LBXE01A	12	8 ~ 13.8	6.5 (~7.2)	0.54 (~0.6)	5990	64.6	50.3	0.63
OD8025-24HHBXE01A	24	15 ~ 26	20.4 (~24.0)	0.85 (~1.0)	9450	104.6	65.2	1.60
OD8025-24HBXE01A	24	15 ~ 26	12.0 (~16.8)	0.50 (~0.7)	8000	85.8	60.1	1.20
OD8025-24MBXE01A	24	15 ~ 26	9.1 (~12.0)	0.38 (~0.5)	6975	76.3	55.7	0.82
OD8025-24LBXE01A	24	15 ~ 26	7.0 (~9.6)	0.29 (~0.4)	5990	64.6	50.3	0.63
OD8025-48HHBXE01A	48	28 ~ 52	21.6 (~28.8)	0.45 (~0.6)	9450	104.6	65.2	1.60
OD8025-48HBXE01A	48	28 ~ 52	18.2 (~24.0)	0.38 (~0.5)	8000	85.8	60.1	1.20
OD8025-48MBXE01A	48	28 ~ 52	13.0 (~19.2)	0.27 (~0.4)	6975	76.3	55.7	0.82
OD8025-48LBXE01A	48	28 ~ 52	9.6 (~14.4)	0.20 (~0.3)	5990	64.6	50.3	0.63



Tach Max Pullup Voltage: Fan Vcc
Tach Max Sink Current: 8mA
Tach Cycles per Revolution: 2

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