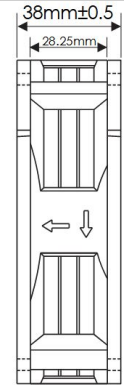
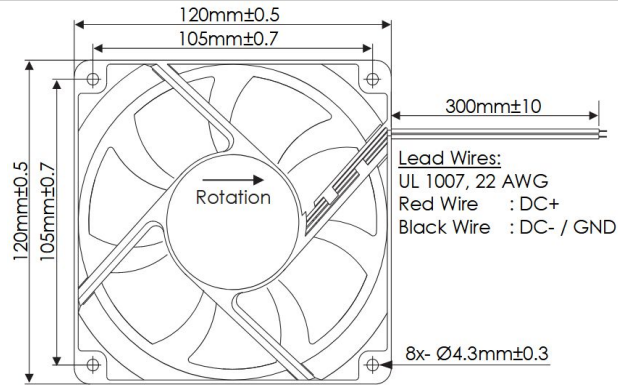


OD1238 Series



DC Fans - 12, 24, 48V
120mm x 38mm (4.7" x 1.5")



Frame	PBT, UL94 V-0 Plastic	<u>Operating Temperature</u> -20°C ~ +65°C <u>Storage Temperature</u> -25°C ~ +70°C <u>Life Expectancy</u> Ball: 70K Hours (L10 at 40°C) Sleeve: 50K Hours (L10 at 40°C) <u>Available Options</u> Tachometer Output Alarm Output PWM Speed Control Input Temperature Speed Control IP Ratings Weight: 0.57 lbs.
Impeller	PBT, UL94 V-0 Plastic	
Connection	2x Lead Wires, 22 AWG	
Motor	Brushless DC, Auto Cutoff, Auto Restart, Polarity Protected, Electronically Protected	
Bearing System	Dual Ball Bearings, or Sealed Sleeve	
Dielectric Strength	500VDC/min, <1mA	
Insulation Resistance	≥10MΩ @ 500 VDC	

The graph plots Static Pressure (inches of water) on the y-axis (0 to 1.00) against CFM on the x-axis (0 to 250). Five performance curves are shown, all decreasing as flow increases. The 'H3 Speed' curve is the highest, starting at approximately 0.95 in. H2O at 0 CFM and dropping to 0 at 150 CFM. The 'HH Speed' curve starts at approximately 0.55 in. H2O at 0 CFM and drops to 0 at 120 CFM. The 'High Speed' curve starts at approximately 0.45 in. H2O at 0 CFM and drops to 0 at 100 CFM. The 'Medium Speed' curve starts at approximately 0.35 in. H2O at 0 CFM and drops to 0 at 80 CFM. The 'Low Speed' curve is the lowest, starting at approximately 0.30 in. H2O at 0 CFM and dropping to 0 at 60 CFM.

CFM	H3 Speed	HH Speed	High Speed	Medium Speed	Low Speed
0	0.95	0.55	0.45	0.35	0.30
50	0.65	0.35	0.25	0.15	0.10
100	0.35	0.15	0.05	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00

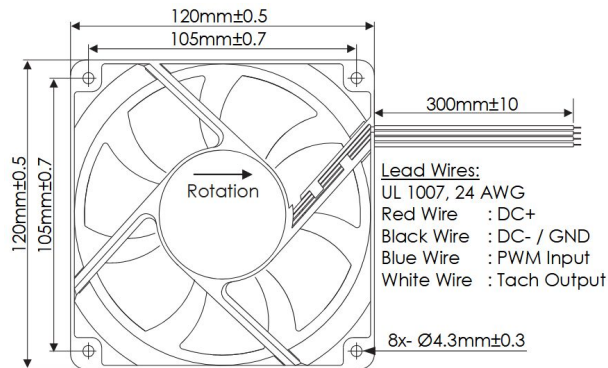
Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Max Watts)	Rated Current (Max Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H ₂ O)
OD1238-12H3**	12	9 ~ 13.8	17.7	1.43	4190	178.0	54.0	0.977
OD1238-12HH**	12	9 ~ 13.8	10.0	0.90	3195	135.8	48.2	0.558
OD1238-12H**	12	9 ~ 13.8	6.0	0.50	2895	124.1	44.1	0.469
OD1238-12M**	12	9 ~ 13.8	4.8	0.40	2597	114.7	41.3	0.427
OD1238-12L**	12	9 ~ 13.8	2.4	0.20	1975	89.5	35.6	0.316
OD1238-24H3**	24	16 ~ 26	22.1	0.90	4190	178.0	54.0	0.977
OD1238-24HH**	24	16 ~ 26	15.0	0.62	3195	135.8	48.2	0.558
OD1238-24H**	24	16 ~ 26	12.0	0.50	2895	124.1	44.1	0.469
OD1238-24M**	24	16 ~ 26	8.0	0.34	2597	114.7	41.3	0.427
OD1238-24L**	24	16 ~ 26	4.0	0.15	1975	89.5	35.6	0.316
OD1238-48H3**	48	30 ~ 52	20.5	0.41	4190	178.0	54.0	0.977
OD1238-48HH**	48	30 ~ 52	15.0	0.30	3195	135.8	48.2	0.558
OD1238-48H**	48	30 ~ 52	14.0	0.29	2895	124.1	44.1	0.469
OD1238-48M**	48	30 ~ 52	7.0	0.14	2597	114.7	41.3	0.427
OD1238-48L**	48	30 ~ 52	4.0	0.07	1975	89.5	35.6	0.316

** Insert "B" for Ball Bearing type, or "SS" for Sealed Sleeve Bearing type.

OD1238 Series with PWM and Tach

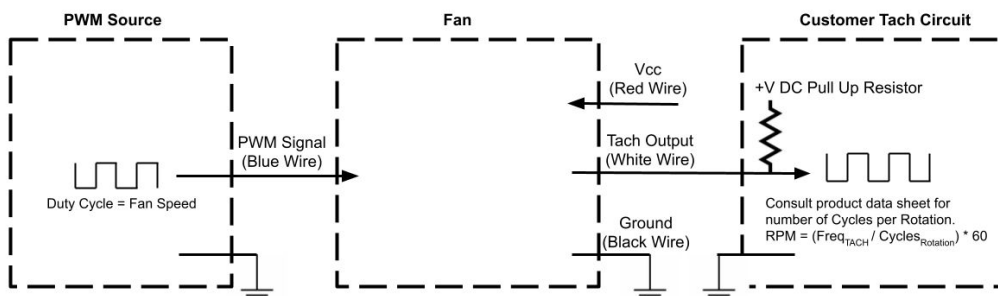


DC Fans - 12, 24, 48V
120mm x 38mm (4.7" x 1.5")



Frame	PBT, UL94 V-0 Plastic	Operating Temperature -20°C ~ +65°C Storage Temperature -25°C ~ +70°C Life Expectancy 70,000 Hours (L10 at 40°C) Installed Options PWM Speed Control Input Open Collector Tach Output Available Options 5V TTL Tach Output Weight: 0.57 lbs.	
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 @ 500 VDC		

Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Max Watts)	Rated Current (Max Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H2O)
OD1238-12H3B10A	12	9 ~ 13.8	17.7	1.43	4190	178.0	54.0	0.977
OD1238-12HHB10A	12	9 ~ 13.8	10.0	0.90	3195	135.8	48.2	0.558
OD1238-12HB10A	12	9 ~ 13.8	6.0	0.50	2895	124.1	44.1	0.469
OD1238-12MB10A	12	9 ~ 13.8	4.8	0.40	2597	114.7	41.3	0.427
OD1238-12LB10A	12	9 ~ 13.8	2.4	0.20	1975	89.5	35.6	0.316
OD1238-24H3B10A	24	16 ~ 26	22.1	0.90	4190	178.0	54.0	0.977
OD1238-24HHB10A	24	16 ~ 26	15.0	0.62	3195	135.8	48.2	0.558
OD1238-24HB10A	24	16 ~ 26	12.0	0.50	2895	124.1	44.1	0.469
OD1238-24MB10A	24	16 ~ 26	8.0	0.34	2597	114.7	41.3	0.427
OD1238-24LB10A	24	16 ~ 26	4.0	0.15	1975	89.5	35.6	0.316
OD1238-48H3B10A	48	30 ~ 52	20.5	0.41	4190	178.0	54.0	0.977
OD1238-48HHB10A	48	30 ~ 52	15.0	0.30	3195	135.8	48.2	0.558
OD1238-48HB10A	48	30 ~ 52	14.0	0.29	2895	124.1	44.1	0.469
OD1238-48MB10A	48	30 ~ 52	7.0	0.14	2597	114.7	41.3	0.427
OD1238-48LB10A	48	30 ~ 52	4.0	0.07	1975	89.5	35.6	0.316

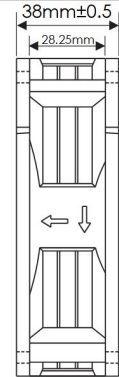
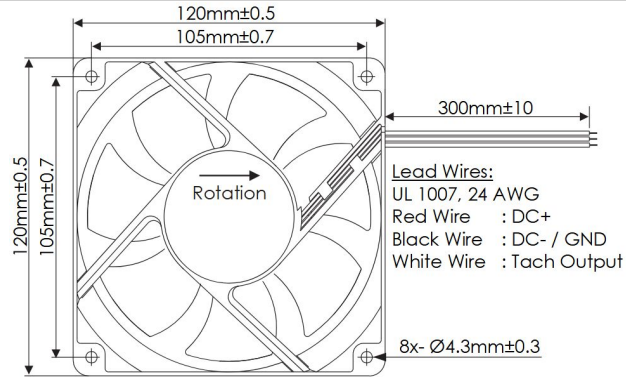


PWM Max High Voltage: 5.5V
 PWM Max Sink Current: 5mA
 PWM Frequency Range: 1KHz-100KHz
 PWM Typical Frequency: 25KHz
 RPM at 0% Duty Cycle: 0 RPM
 RPM will be full speed if PWM input is disconnected.
 RPM will be 0 if PWM input is 0V or grounded.
 Tach Max Pullup Voltage: Fan Vcc
 Tach Max Sink Current: 5mA
 Tach Cycles per Rotation: 2

OD1238 Series with Open Collector Tach

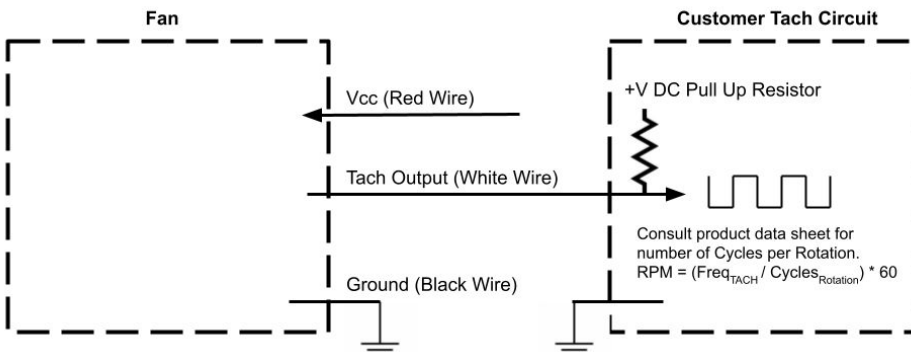


DC Fans - 12, 24, 48V
120mm x 38mm (4.7" x 1.5")



Frame	PBT, UL94 V-0 Plastic	Operating Temperature -20°C ~ +65°C Storage Temperature -25°C ~ +70°C Life Expectancy 70,000 Hours (L10 at 40°C) Installed Options Open Collector Tach Output Available Options 5V TTL Tach Output Weight: 0.57 lbs.	
Impeller	PBT, UL94 V-0 Plastic		
Connection	3x 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 @ 500 VDC		

Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Max Watts)	Rated Current (Max Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H ₂ O)
OD1238-12H3B01A	12	9 ~ 13.8	17.7	1.43	4190	178.0	54.0	0.977
OD1238-12HHB01A	12	9 ~ 13.8	10.0	0.90	3195	135.8	48.2	0.558
OD1238-12HB01A	12	9 ~ 13.8	6.0	0.50	2895	124.1	44.1	0.469
OD1238-12MB01A	12	9 ~ 13.8	4.8	0.40	2597	114.7	41.3	0.427
OD1238-12LB01A	12	9 ~ 13.8	2.4	0.20	1975	89.5	35.6	0.316
OD1238-24H3B01A	24	16 ~ 26	22.1	0.90	4190	178.0	54.0	0.977
OD1238-24HHB01A	24	16 ~ 26	15.0	0.62	3195	135.8	48.2	0.558
OD1238-24HB01A	24	16 ~ 26	12.0	0.50	2895	124.1	44.1	0.469
OD1238-24MB01A	24	16 ~ 26	8.0	0.34	2597	114.7	41.3	0.427
OD1238-24LB01A	24	16 ~ 26	4.0	0.15	1975	89.5	35.6	0.316
OD1238-48H3B01A	48	30 ~ 52	20.5	0.41	4190	178.0	54.0	0.977
OD1238-48HHB01A	48	30 ~ 52	15.0	0.30	3195	135.8	48.2	0.558
OD1238-48HB01A	48	30 ~ 52	14.0	0.29	2895	124.1	44.1	0.469
OD1238-48MB01A	48	30 ~ 52	7.0	0.14	2597	114.7	41.3	0.427
OD1238-48LB01A	48	30 ~ 52	4.0	0.07	1975	89.5	35.6	0.316

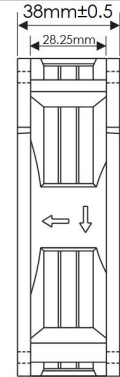
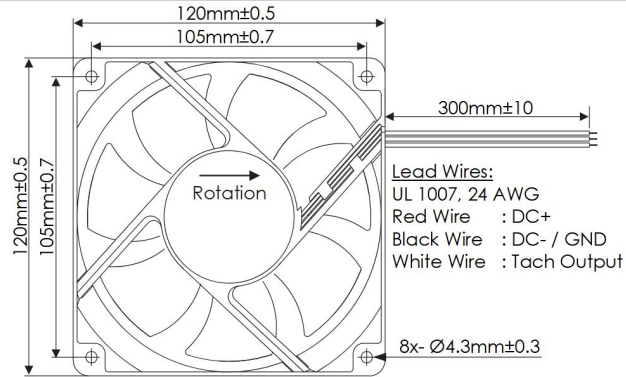


Tach Max Pullup Voltage: Fan Vcc
 Tach Max Sink Current: 5mA
 Tach Cycles per Rotation: 2

OD1238 Series with 5V TTL Tach

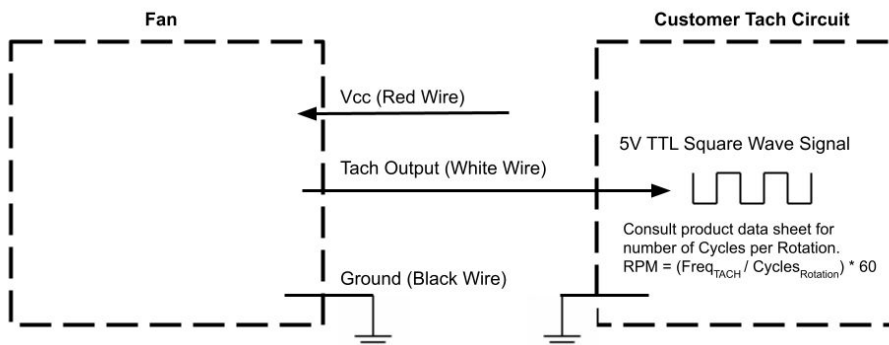


DC Fans - 12, 24, 48V
120mm x 38mm (4.7" x 1.5")



Frame	PBT, UL94 V-0 Plastic	Operating Temperature -20°C ~ +65°C Storage Temperature -25°C ~ +70°C Life Expectancy 70,000 Hours (L10 at 40°C) Installed Options 5V TTL Tach Output Available Options Open Collector Tach Output Weight: 0.57 lbs.	
Impeller	PBT, UL94 V-0 Plastic		
Connection	3x 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 @ 500 VDC		

Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Max Watts)	Rated Current (Max Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H2O)
OD1238-12H3B01	12	9 ~ 13.8	17.7	1.43	4190	178.0	54.0	0.977
OD1238-12HHB01	12	9 ~ 13.8	10.0	0.90	3195	135.8	48.2	0.558
OD1238-12HB01	12	9 ~ 13.8	6.0	0.50	2895	124.1	44.1	0.469
OD1238-12MB01	12	9 ~ 13.8	4.8	0.40	2597	114.7	41.3	0.427
OD1238-12LB01	12	9 ~ 13.8	2.4	0.20	1975	89.5	35.6	0.316
OD1238-24H3B01	24	16 ~ 26	22.1	0.90	4190	178.0	54.0	0.977
OD1238-24HHB01	24	16 ~ 26	15.0	0.62	3195	135.8	48.2	0.558
OD1238-24HB01	24	16 ~ 26	12.0	0.50	2895	124.1	44.1	0.469
OD1238-24MB01	24	16 ~ 26	8.0	0.34	2597	114.7	41.3	0.427
OD1238-24LB01	24	16 ~ 26	4.0	0.15	1975	89.5	35.6	0.316
OD1238-48H3B01	48	30 ~ 52	20.5	0.41	4190	178.0	54.0	0.977
OD1238-48HHB01	48	30 ~ 52	15.0	0.30	3195	135.8	48.2	0.558
OD1238-48HB01	48	30 ~ 52	14.0	0.29	2895	124.1	44.1	0.469
OD1238-48MB01	48	30 ~ 52	7.0	0.14	2597	114.7	41.3	0.427
OD1238-48LB01	48	30 ~ 52	4.0	0.07	1975	89.5	35.6	0.316

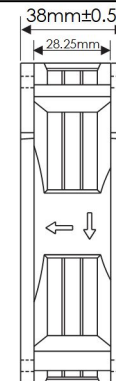
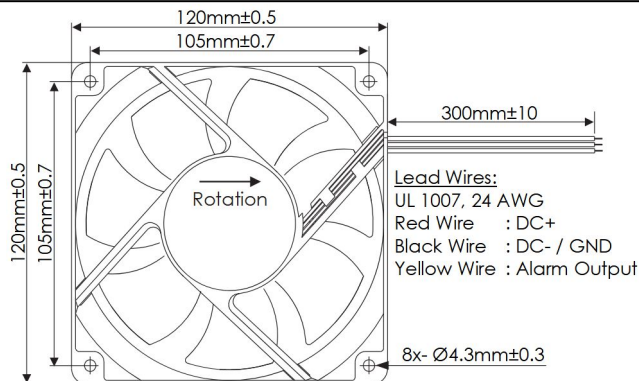


Tach Pulse Output Voltage: 5V
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

OD1238 Series with Open Collector Alarm

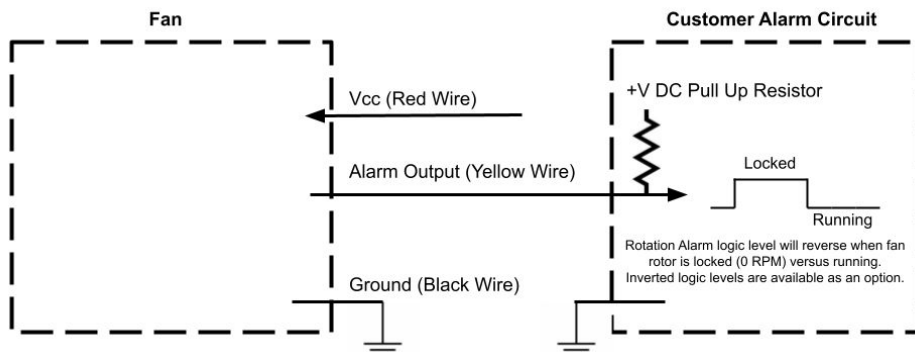


DC Fans - 12, 24, 48V
120mm x 38mm (4.7" x 1.5")



Frame	PBT, UL94 V-0 Plastic	Operating Temperature -20°C ~ +65°C Storage Temperature -25°C ~ +70°C Life Expectancy 70,000 Hours (L10 at 40°C) Installed Options Open Collector Alarm Output Available Options 5V TTL Alarm Output Inverted Alarm States Weight: 0.57 lbs.	
Impeller	PBT, UL94 V-0 Plastic		
Connection	3x 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 @ 500 VDC		

Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Max Watts)	Rated Current (Max Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H2O)
OD1238-12H3B02A	12	9 ~ 13.8	17.7	1.43	4190	178.0	54.0	0.977
OD1238-12HHB02A	12	9 ~ 13.8	10.0	0.90	3195	135.8	48.2	0.558
OD1238-12HB02A	12	9 ~ 13.8	6.0	0.50	2895	124.1	44.1	0.469
OD1238-12MB02A	12	9 ~ 13.8	4.8	0.40	2597	114.7	41.3	0.427
OD1238-12LB02A	12	9 ~ 13.8	2.4	0.20	1975	89.5	35.6	0.316
OD1238-24H3B02A	24	16 ~ 26	22.1	0.90	4190	178.0	54.0	0.977
OD1238-24HHB02A	24	16 ~ 26	15.0	0.62	3195	135.8	48.2	0.558
OD1238-24HB02A	24	16 ~ 26	12.0	0.50	2895	124.1	44.1	0.469
OD1238-24MB02A	24	16 ~ 26	8.0	0.34	2597	114.7	41.3	0.427
OD1238-24LB02A	24	16 ~ 26	4.0	0.15	1975	89.5	35.6	0.316
OD1238-48H3B02A	48	30 ~ 52	20.5	0.41	4190	178.0	54.0	0.977
OD1238-48HHB02A	48	30 ~ 52	15.0	0.30	3195	135.8	48.2	0.558
OD1238-48HB02A	48	30 ~ 52	14.0	0.29	2895	124.1	44.1	0.469
OD1238-48MB02A	48	30 ~ 52	7.0	0.14	2597	114.7	41.3	0.427
OD1238-48LB02A	48	30 ~ 52	4.0	0.07	1975	89.5	35.6	0.316



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