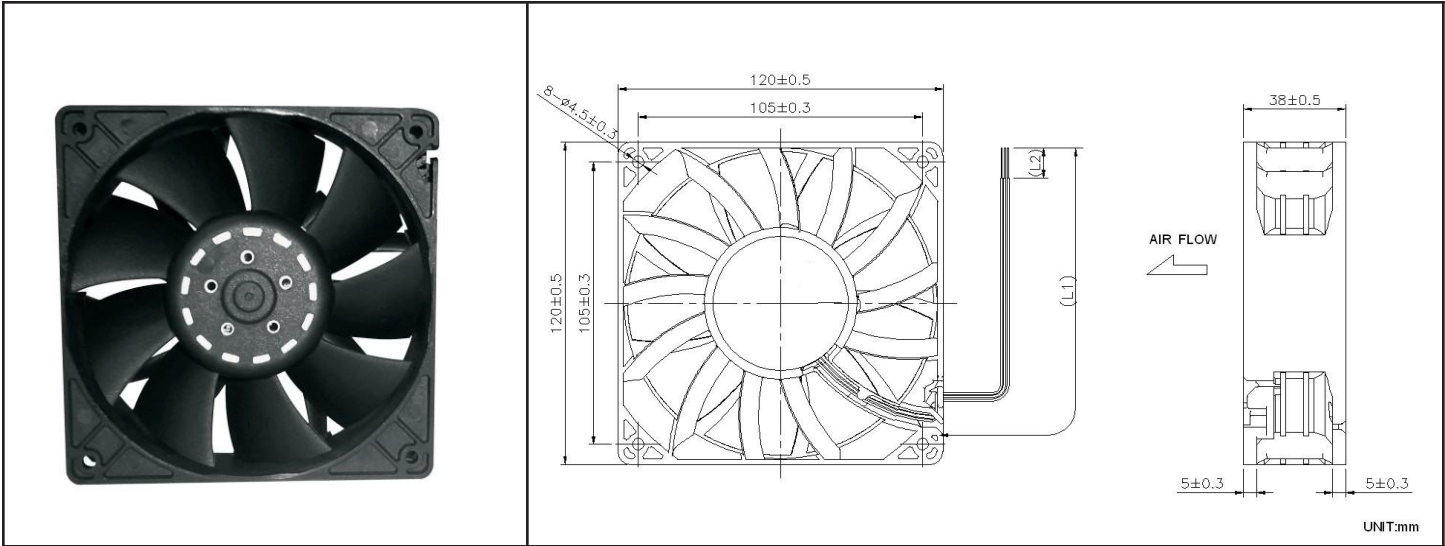


# OD1238 XJ Series

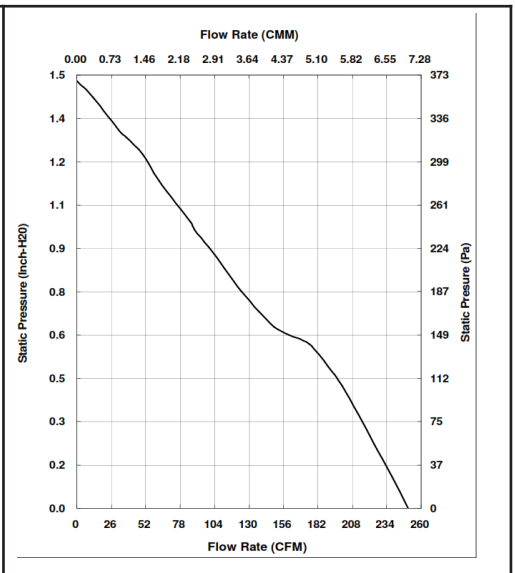


DC Fan 12V

120x38mm (4.7"x 1.5")

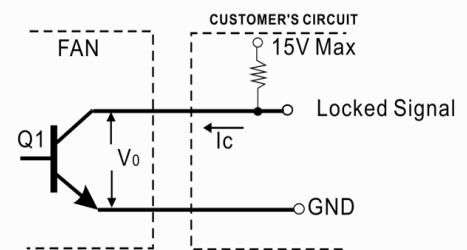


Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector  Weight: ~ 375 g  * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer  m1
Connecion	3x Lead wires *	
Motor	Brushless DC, auto restart, polarity protected.	
Bearing System	Dual ball bearing	
Insulation Resistance	Min. 10M at 500VDC	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	
Temperature Range	-10C ~ +70C	
Storage Temperature	-40C ~ +80C	
Life (L10)	70,000 hours (40C)	



Part Number	OD1238-12HBXJ01A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	3.70 A
Rated Power	44.4 W
Rated Speed (RPM)	6000
Airflow (CFM)	250
Noise Level (dB)	69
Max. Static Pressure	1.48" H <sub>2</sub> O

\*Output type.....Open collector type  
 \*Electrical design suggestion:



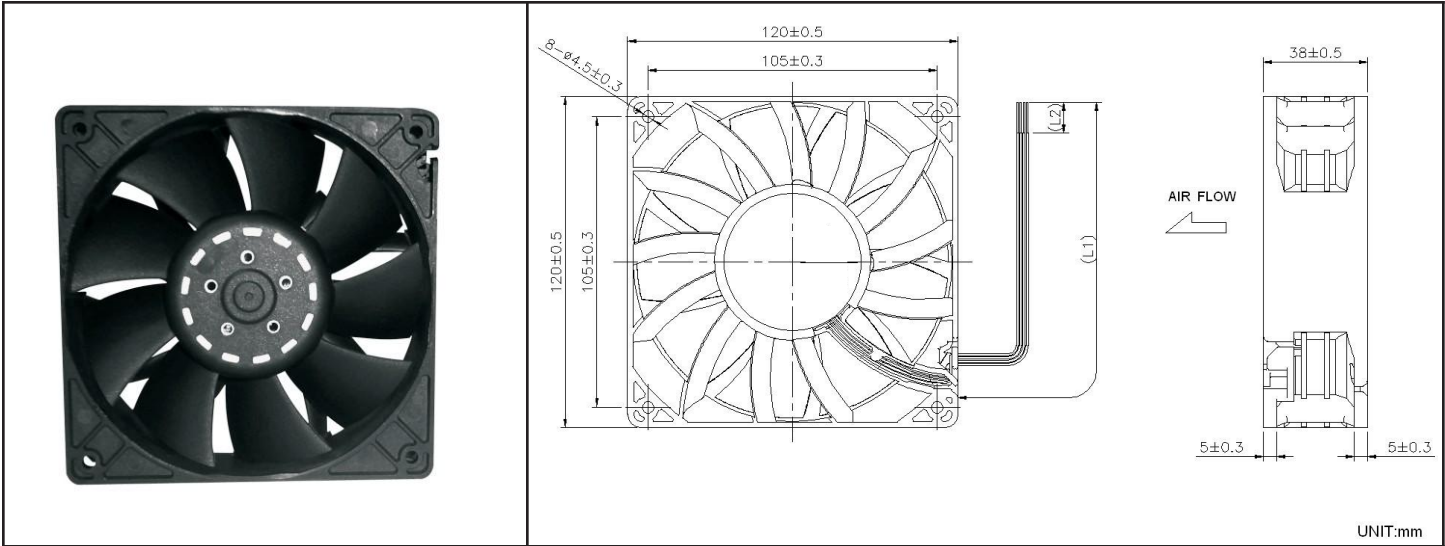
\*Transistor Q1 at "ON" position  
 Collector current.....I<sub>c</sub>=10mA Max  
 Saturation Voltage.....V<sub>OL</sub>=1.0V Max  
 (Between Collector and Emitter at I<sub>c</sub>=10mA)  
 \*Transistor Q1 at "OFF" position  
 Release Voltage.....V<sub>OH</sub>=15V Max

# OD1238 XJ Series



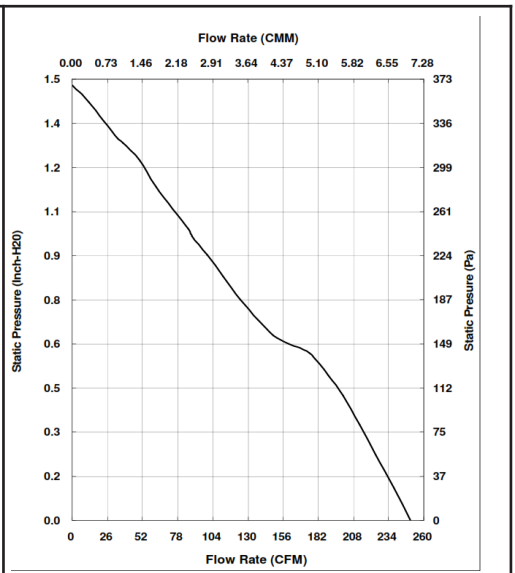
DC Fan 12V

120x38mm (4.7"x 1.5")



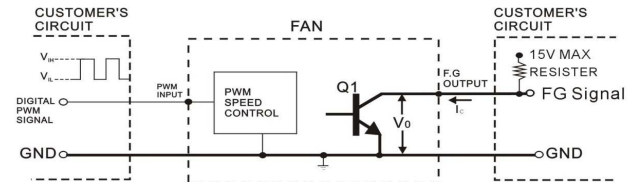
Frame & Impeller	PBT, UL94V-O plastic
Connecion	4x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp
Temperature Range	-10C ~ +70C
Storage Temperature	-40C ~ +80C
Life (L10)	70,000 hours (40C)

Tachometer - Open Collector PWM  
 Weight: ~ 375 g  
 \* Connection  
 UL1007, 24AWG, ~320mm  
 Red (+)  
 Black (-)  
 White Tachometer  
 Blue PWM  
 m1



Part Number	OD1238-12HBXJ10A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	3.70 A
Rated Power	44.4 W
Rated Speed (RPM)	6000
Airflow (CFM)	250
Noise Level (dB)	69
Max. Static Pressure	1.48" H <sub>2</sub> O

(External signal function design is decided by customer)



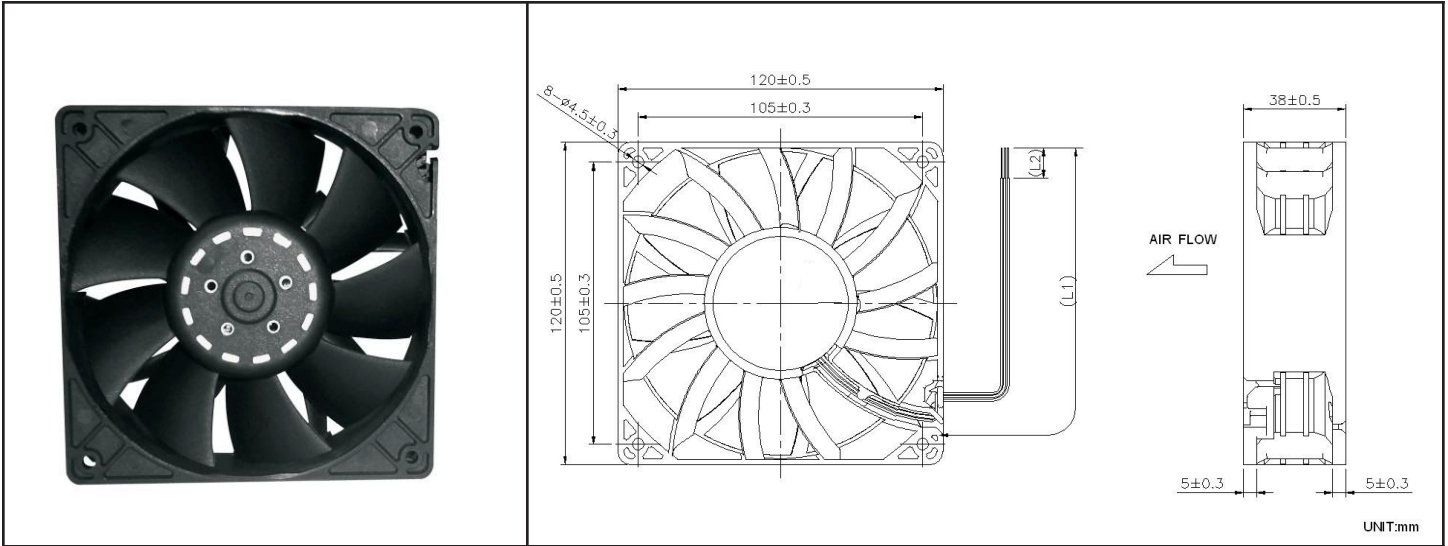
- \*TRANSISTOR Q1 AT "ON" POSITION  
 COLLECTOR CURRENT----- I<sub>c</sub> = 10mA MAX  
 SATURATION VOLTAGE----- V<sub>OL</sub> = 1 V MAX
- \*TRANSISTOR Q1 AT "OFF" POSITION  
 RELEASE VOLTAGE----- V<sub>OH</sub> = 15 V MAX
- \*DIGITAL PWM SPEED CONTROL POSITION  
 PWM INPUT VOLTAGE HIGH----- V<sub>H</sub> = 3V~5.5 V  
 PWM INPUT VOLTAGE LOW----- V<sub>IL</sub> = 0V~0.5V
- \*PWM INPUT FREQUENCY----- FPWM: 18KHZ~30KHZ

# OD1238 XJ Series

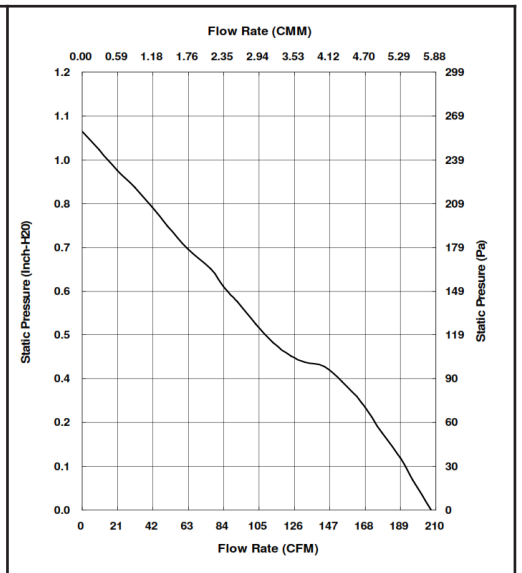


DC Fan 12V

120x38mm (4.7"x 1.5")

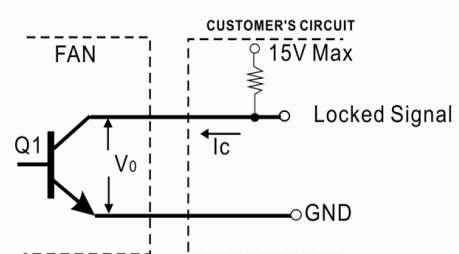


Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector  Weight: ~ 375 g  * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer  m1
Connecion	3x Lead wires *	
Motor	Brushless DC, auto restart, polarity protected.	
Bearing System	Dual ball bearing	
Insulation Resistance	Min. 10M at 500VDC	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	
Temperature Range	-10C ~ +70C	
Storage Temperature	-40C ~ +80C	
Life (L10)	70,000 hours (40C)	



Part Number	OD1238-12MBXJ01A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	2.30 A
Rated Power	27.6 W
Rated Speed (RPM)	5000
Airflow (CFM)	207
Noise Level (dB)	63
Max. Static Pressure	1.04" H <sub>2</sub> O

\*Output type.....Open collector type  
 \*Electrical design suggestion:



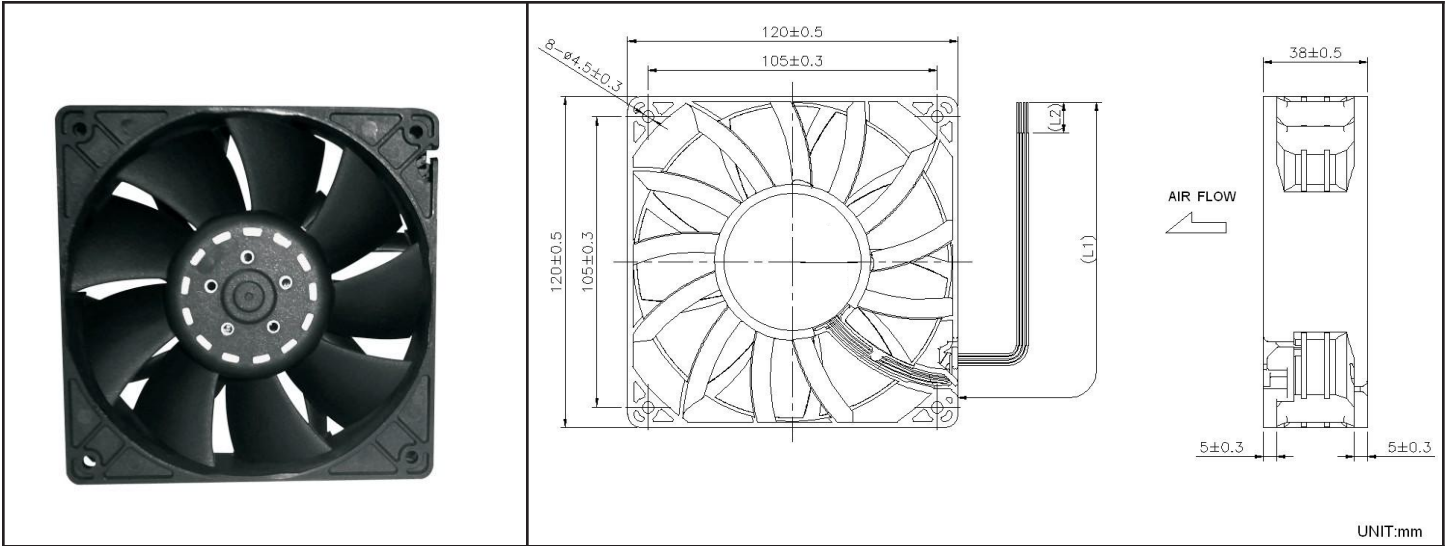
\*Transistor Q1 at "ON" position  
 Collector current.....I<sub>c</sub>=10mA Max  
 Saturation Voltage.....V<sub>OL</sub>=1.0V Max  
 (Between Collector and Emitter at I<sub>c</sub>=10mA)  
 \*Transistor Q1 at "OFF" position  
 Release Voltage.....V<sub>OH</sub>=15V Max

# OD1238 XJ Series

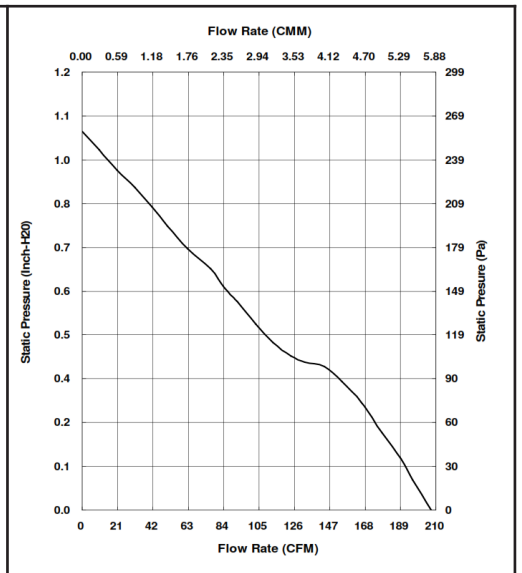


DC Fan 12V

120x38mm (4.7"x 1.5")

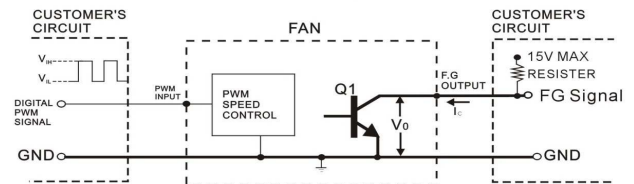


Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector PWM  Weight: ~ 375 g  * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer Blue PWM  m1
Conneccion	4x Lead wires *	
Motor	Brushless DC, auto restart, polarity protected.	
Bearing System	Dual ball bearing	
Insulation Resistance	Min. 10M at 500VDC	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	
Temperature Range	-10C ~ +70C	
Storage Temperature	-40C ~ +80C	
Life (L10)	70,000 hours (40C)	



Part Number	OD1238-12MBXJ10A
Nominal Voltage	12V DC
Voltage Range	7 ~ 13.2V DC
Rated Current	2.30 A
Rated Power	27.6 W
Rated Speed (RPM)	5000
Airflow (CFM)	207
Noise Level (dB)	63
Max. Static Pressure	1.04" H <sub>2</sub> O

(External signal function design is decided by customer)



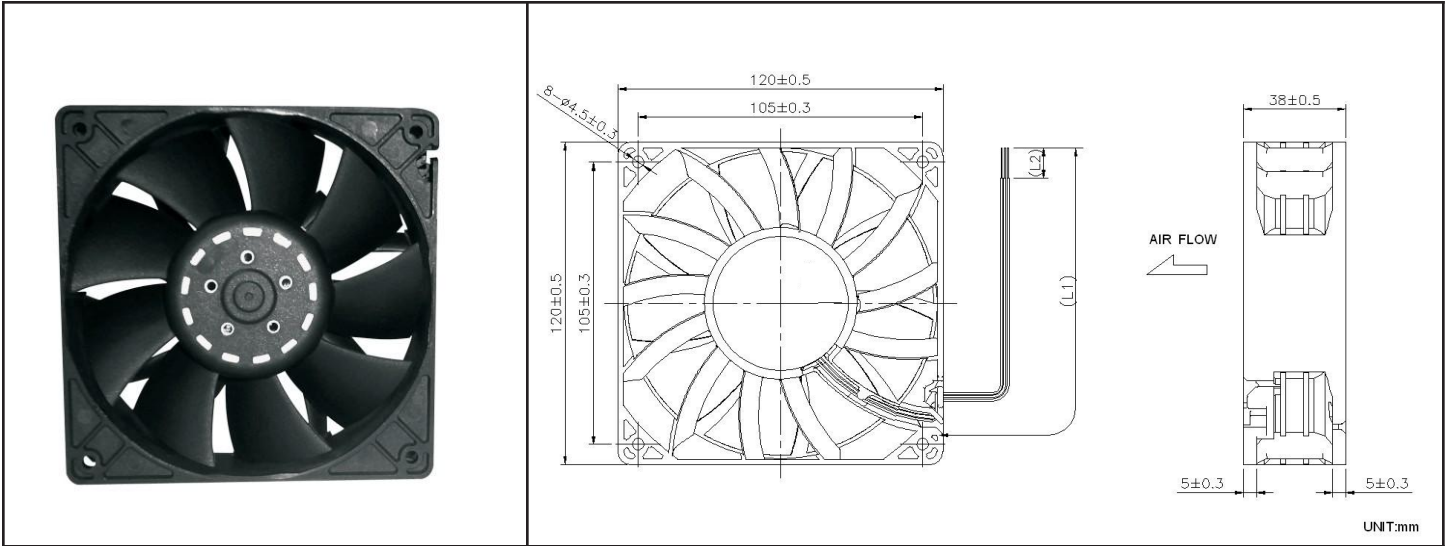
- \*TRANSISTOR Q1 AT "ON" POSITION  
COLLECTOR CURRENT----- I<sub>c</sub> = 10mA MAX  
SATURATION VOLTAGE----- V<sub>OL</sub> = 1 V MAX
- \*TRANSISTOR Q1 AT "OFF" POSITION  
RELEASE VOLTAGE----- V<sub>OH</sub> = 15 V MAX
- \*DIGITAL PWM SPEED CONTROL POSITION  
PWM INPUT VOLTAGE HIGH----- V<sub>H</sub> = 3V~5.5 V  
PWM INPUT VOLTAGE LOW----- V<sub>IL</sub> = 0V~0.5V
- \*PWM INPUT FREQUENCY----- FPWM: 18KHZ~30KHZ

# OD1238-24HBXJ01A

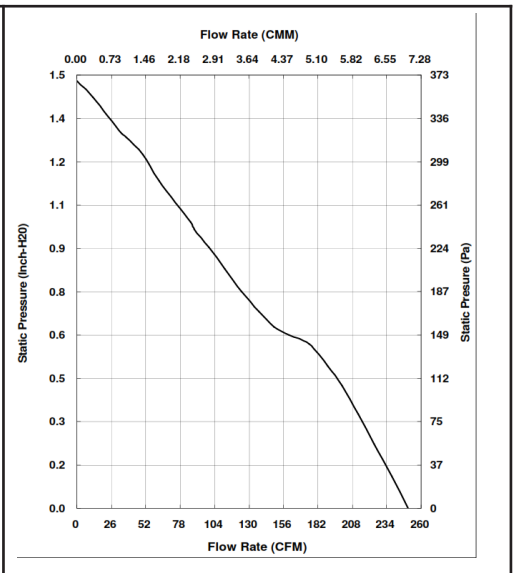


DC Fan 24V

120x38mm (4.7"x 1.5")

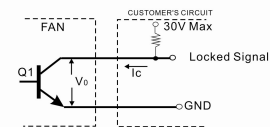


Frame & Impeller	PBT, UL94V-O plastic	Tachometer - Open Collector  Weight: ~ 375 g  * Connection UL1007, 24AWG, ~320mm Red (+) Black (-) White Tachometer
Connecion	3x Lead wires *	
Motor	Brushless DC, auto restart, polarity protected.	
Bearing System	Dual ball bearing	
Insulation Resistance	Min. 10M at 500VDC	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	
Temperature Range	-10C ~ +70C	
Storage Temperature	-40C ~ +80C	
Life (L10)	70,000 hours (40C)	m1



Part Number	OD1238-24HBXJ01A
Nominal Voltage	24V DC
Voltage Range	17 ~ 26.4V DC
Nominal Current	1.75 A
Nominal Power	42 W
Rated Speed (RPM)	6000
Airflow (CFM)	250
Noise Level (dB)	69
Max. Static Pressure	1.48" H2O

\*Output type.....Open collector type  
 \*Electrical design suggestion:  
 (External signal function design is decided by customer)



\*Transistor Q1 at "ON" position  
 Collector current..... $I_c=10mA$  Max  
 Saturation Voltage..... $V_{ce}=1.0V$  Max  
 (Between Collector and Emitter at  $I_c=10mA$ )  
 \*Transistor Q1 at "OFF" position  
 Release Voltage..... $V_{ce}=30V$  Max

