

General Specifications

Motor Type: DC Brushless Motor

Motor Protection:

Auto Restart/Polarity Protection
(Motor withstands reverse connection for positive and negative leads.)

Insulation Resistance:

10M Ω or over with a DC500V Megger

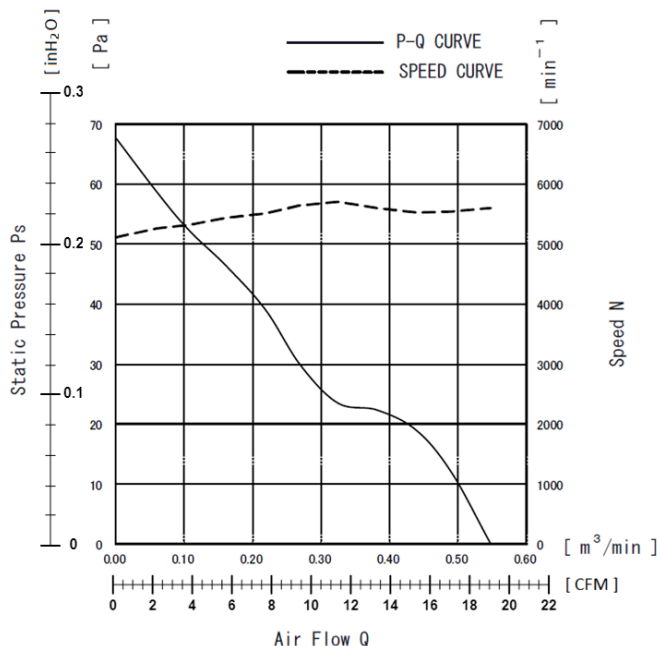
Dielectric Withstand Voltage:

AC 700V 1s or 500V 1min

Allowable Ambient Temperature Range:

-10°C ~ +70°C (Operating)
-40°C ~ +70°C (Storage)
(non-condensing environment)

Characteristics Curves



Specifications

MODEL	Rated	Operating	Current		Input Power		Speed	Max.		Max. Static		Noise	Mass
	Voltage	Voltage	Avg	Max	Avg	Max		Air Flow		Pressure			
	(V)	(V)	(A)*1	(A)*1	(W)*1	(W)*1	(min ⁻¹)*1	(CFM)	(m³/min)	(inH ₂ O)	(Pa)	(dB)*1	(g)
	06015VE-12P-CT-00	12	6.0 ~ 13.8	0.13	0.19	1.56	2.28	5600	19.42	0.55	0.272	67.7	36.5

*1: Values in Free Air

IP Rated Fan Benefits & Applications

IP 68/69K

NMB offers the industry's highest Ingress Protection (IP) rated cooling fans. IP69K fans provide dust tight protection, and safeguard against powerful, high temperature, water jets for outdoor applications and other harsh environments. NMB fans are designed with NMB precision machined ball bearings with stainless steel outer ring and stainless steel or ceramic balls, assuring long life and high reliability.

Benefits

- IP69K rating per IEC 60529 standard
- Long life and high reliability with NMB precision ball bearings
- Open Collector Tacho Signal output for fan speed

Applications

- Outdoor Applications
- Factory Automation
- Food Processing
- Refrigeration
- LED Lighting
- Inverters
- Telecomm
- Horticulture

Life Expectancy L10

60°C 40,000 Hours

TACHO Specifications

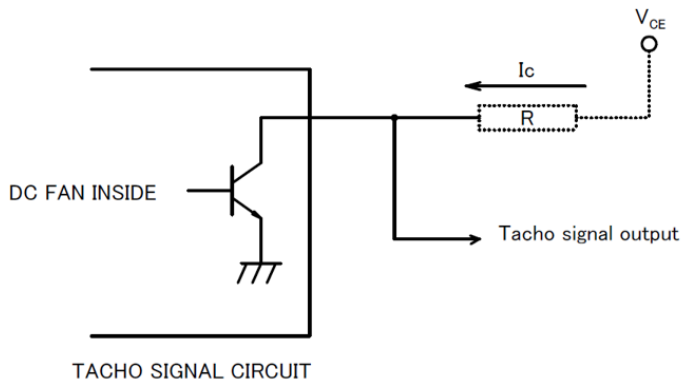
TACHOMETER SIGNAL

1. OUTPUT CIRCUIT : OPEN COLLECTOR)
2. SPECIFICATION

Absolute Maximum Ratings at Ta=25°C

V_{CE} max : +15V

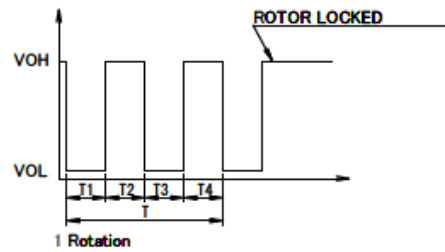
I_C max : 5mA [$V_{CE(sat)}$ max = 0.5V]



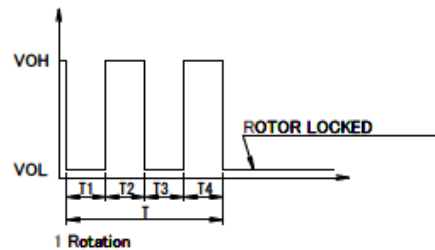
3. OUTPUT WAVEFORM: RATED VOLTAGE

OUTPUT SIGNAL VOLTAGE

3-1 Case-1



3-2 Case-2

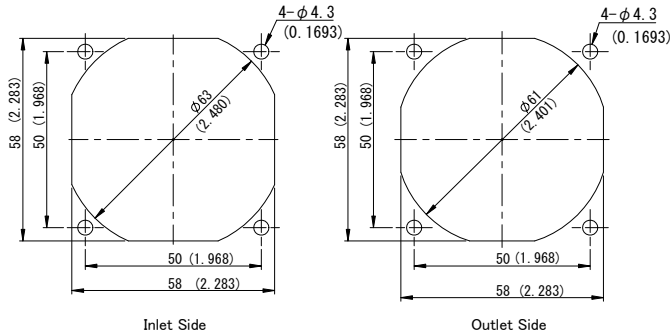


- 1) When the rotor is locked at V_{OH} position of signal, signal keeps V_{OH} position.
- 2) When the rotor is locked at V_{OL} position of signal, signal keeps V_{OL} position.
- 3) $T = T_1 + T_2 + T_3 + T_4 = 60 / m = 1$ rotation

$m : \text{min}^{-1}$

Tacho Duty Cycle = $50\% \pm 10\%$

Panel Cut-Outs



Unit: mm (inch)

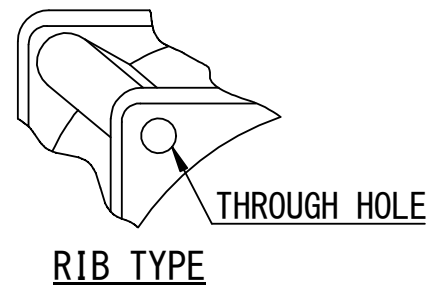
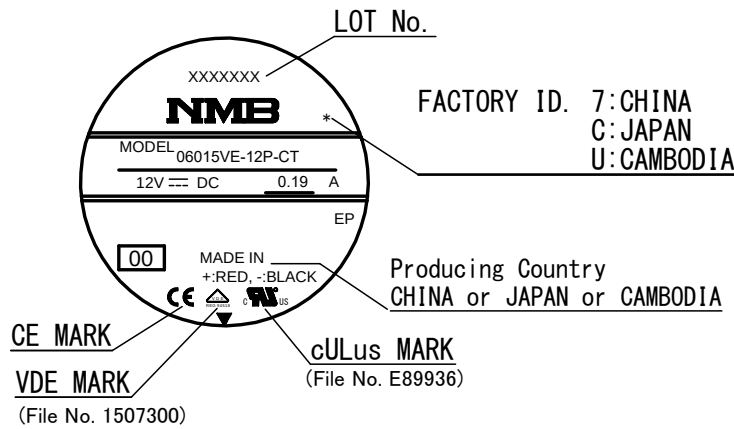
Materials

- Casing : Plastic (Black UL94V-0)
- Impeller : Plastic (Black UL94V-0)
- Bearing : Ball Bearing
- Lead Wire : UL3385 AWG26 or UL1430 AWG 26

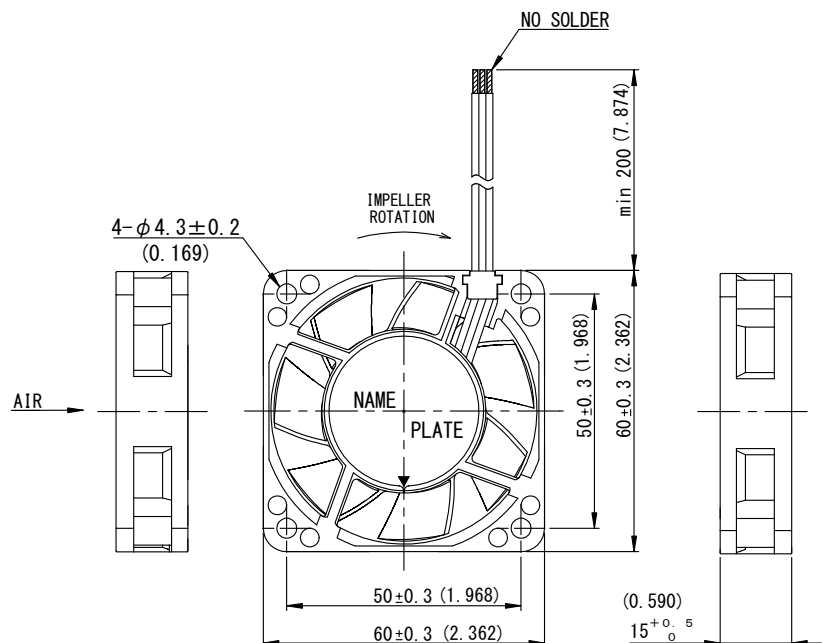
(+) : Red (-) : Black

Tacho: White

Outline



Unit: mm (inch)



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