

# 60x60x15 mm

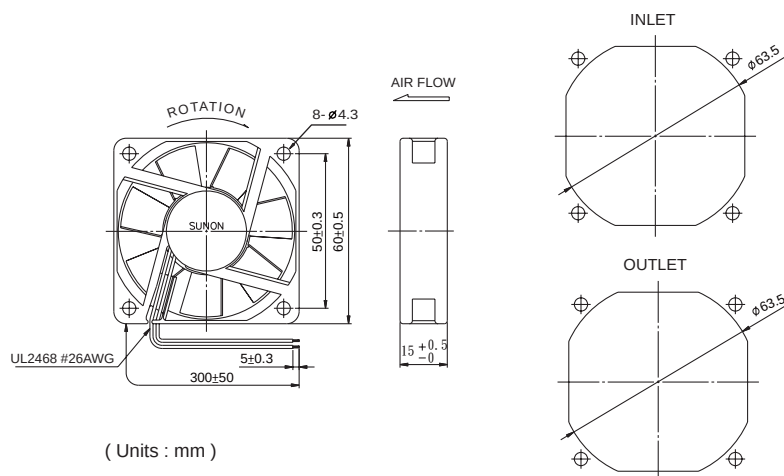
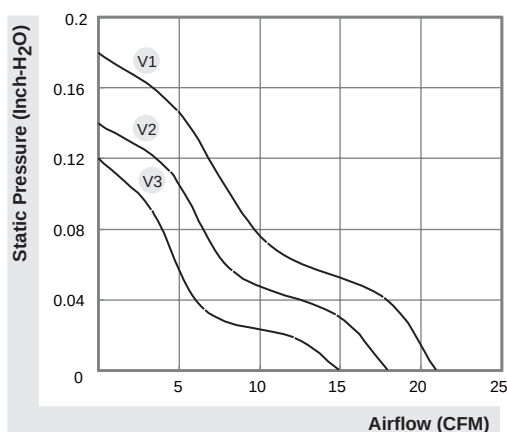
# SUNON

## MagLev Motor Fan

## 15~21 CFM



| Model       | P/N     | Bearing<br>● VAPO<br>⊙ 2BALL | Rating<br>Voltage<br>(VDC) | Power<br>Current<br>(AMP) | Power<br>Consumption<br>(WATTS) | Speed<br>(RPM) | Air<br>Flow<br>(CFM) | Static<br>Pressure<br>(Inch-H <sub>2</sub> O) | Noise<br>(dBA) | Weight<br>(g) |
|-------------|---------|------------------------------|----------------------------|---------------------------|---------------------------------|----------------|----------------------|-----------------------------------------------|----------------|---------------|
| KDE0506PHV2 | MS.A.GN | ●                            | 5                          | 0.18                      | 0.9                             | 3800           | 18                   | 0.14                                          | 31             | 44            |
| KDE0506PHV3 | MS.A.GN | ●                            | 5                          | 0.10                      | 0.5                             | 3000           | 15                   | 0.12                                          | 25             | 44            |
| KDE1206PHV1 | MS.A.GN | ●                            | 12                         | 0.13                      | 1.6                             | 4300           | 21                   | 0.18                                          | 36             | 42            |
| KDE1206PHV2 | MS.A.GN | ●                            | 12                         | 0.08                      | 1.0                             | 3800           | 18                   | 0.14                                          | 31             | 42            |
| KDE1206PHV3 | MS.A.GN | ●                            | 12                         | 0.05                      | 0.6                             | 3000           | 15                   | 0.12                                          | 25             | 42            |
| KDE2406PHV1 | MS.A.GN | ●                            | 24                         | 0.077                     | 1.9                             | 4300           | 21                   | 0.18                                          | 36             | 44            |
| KDE2406PHV2 | MS.A.GN | ●                            | 24                         | 0.054                     | 1.3                             | 3800           | 18                   | 0.14                                          | 31             | 44            |



\*All model could be customized on voltage or any other requirements to fit your need.

\*Specifications subject to change without notice. Please Visit SUNON web site at <http://www.sunon.com> for update information.

# Fan 3rd Wire Signal

Fan with switching driving circuit designed for rpm measurement:

These fan motors have three lead wires:

+:Red,

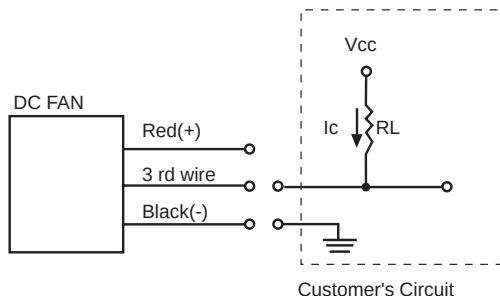
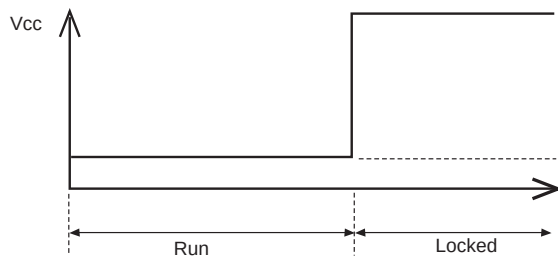
-:Black,

output signal for 3rd wire:

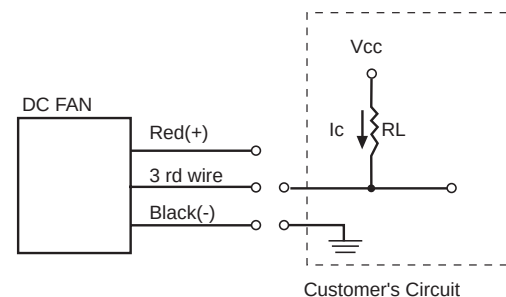
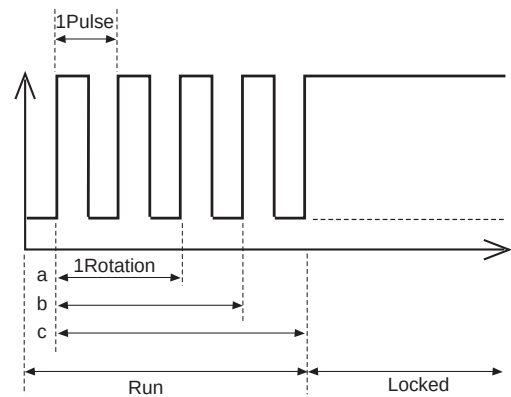
F Type : Yellow

R Type : White

## ● R Type (Rotation Detector)



## ● F Type (Frequency Generator)



The relationship between rotation & output pulses signal from 3rd wire are as follows:

- (a) 1 Rotation=2 Pulses(4 poles' motor)
- (b) 1 Rotation=3 Pulses(6 poles' motor)
- (c) 1 Rotation=4 Pulses(8 poles' motor)

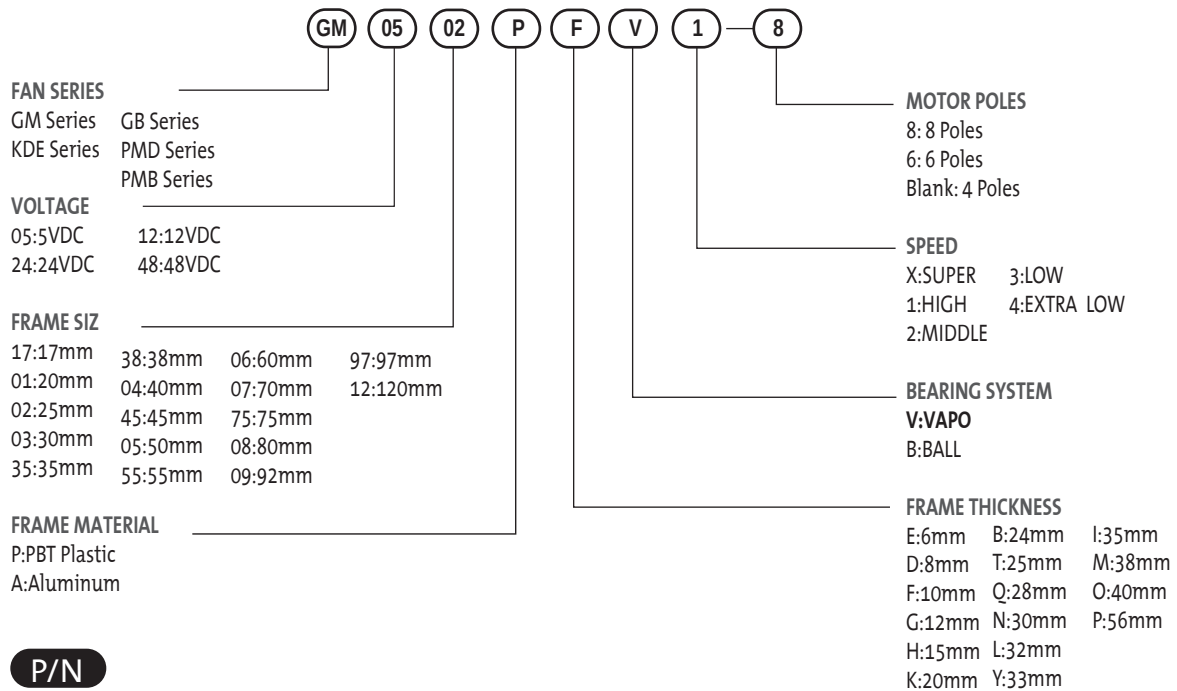
Notice:

For 8 poles' motor: normally, 1Rotation=4 pulses, if frequency divided circuit is implemented in this motor then 1Rotation=2 pulses.

## Safety



# DC Fan and Blower Model Numbering System



- 11/13 Motor model
- MS MagLev Design
- (2) Two ball bearing
- G Big hub
- (9) 9 Blades
- N Smaller hub
- A Auto restart
- F 3rd wire with frequency generation waveform
- R 3rd wire with rotation detector waveform
- U Upgrade
- GN RoHS compliance

## Sunon Connector recommendation

| Connector pitch | Manufacturer | Housing       | Terminal                                         |
|-----------------|--------------|---------------|--------------------------------------------------|
| 1.25mm          | HIROSE       | DF13-2S-1.25C | DF13-2630SCF                                     |
|                 | MOLEX        | 51021-0300    | 50058-8200                                       |
| 1.5mm           | JST          | ZHR-2         | SZH-002T-P0.5 or SZH-003T-P0.5                   |
| 2.0mm           | JST          | PHR-2         | SPH-002T-P0.5S                                   |
| 2.54mm          | ECI          | 2510-02       | 2511-P                                           |
|                 | Molex        | 50-57-9405    | 16-02-0069(70058-0004) or 16-02-0082(70058-0006) |
|                 | Molex        | 2695-02RP     | 2759T(39-00-0372)                                |
|                 | Molex        | 2695-03RP     | 2759T(39-00-0372)                                |
|                 | Molex        | 6471-021      | 4809-C-P914                                      |
|                 | Molex        | 6471-031      | 4809-C-P914                                      |
| 2.50mm          | JAM          | SC25-02HG     | 725462-2MA                                       |
|                 | JST          | SMR-02V-B     | SYM-001T-P0.6                                    |
|                 | JST          | XHP-2         | SXH-001T-0.6                                     |
|                 | JST          | EHR-2(H28J-2) | SEH-001T-P0.6                                    |
|                 | JST          | SMP-02V-BC    | SHF-001T-0.8BS                                   |
|                 | JWT          | A2502H02-2P   | A2502TOP-2                                       |
|                 | JWT          | A2502H02-3P   | A2502TOP-2                                       |
|                 | Molex        | 5051-02       | 2759T(39-00-0372)                                |
|                 | Molex        | 5264-02       | 5263PBT(08-70-1039)                              |