

# 40X40X20 mm

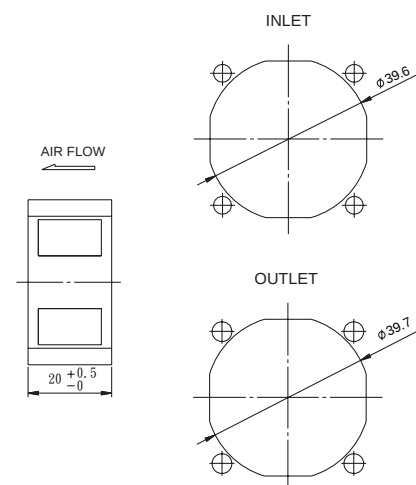
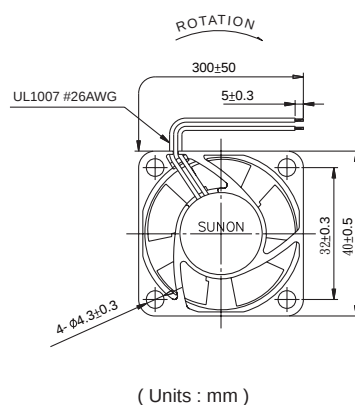
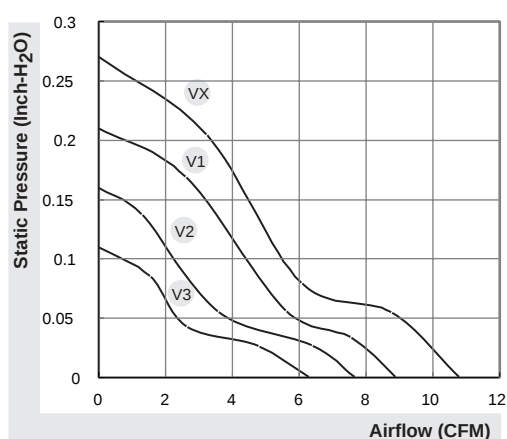
# SUNON

## MagLev Motor Fan

## 6.3~10.8 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) |
|-------------|---------|------------------------------|----------------------------|---------------------------|---------------------------------|----------------|----------------------|-----------------------------------------------|----------------|---------------|
| KDE0504PKV1 | MS.A.GN | ●                            | 5                          | 0.19                      | 1.0                             | 7200           | 8.9                  | 0.21                                          | 25.5           | 30            |
| KDE0504PKV2 | MS.A.GN | ●                            | 5                          | 0.12                      | 0.6                             | 6200           | 7.7                  | 0.16                                          | 21.0           | 30            |
| KDE0504PKV3 | MS.A.GN | ●                            | 5                          | 0.08                      | 0.4                             | 5200           | 6.3                  | 0.11                                          | 18.0           | 30            |
| KDE1204PKVX | MS.A.GN | ●                            | 12                         | 0.12                      | 1.4                             | 8200           | 10.8                 | 0.27                                          | 27.5           | 31            |
| KDE1204PKV1 | MS.A.GN | ●                            | 12                         | 0.07                      | 0.8                             | 7200           | 8.9                  | 0.21                                          | 25.5           | 31            |
| KDE1204PKV2 | MS.A.GN | ●                            | 12                         | 0.05                      | 0.6                             | 6200           | 7.7                  | 0.16                                          | 21.0           | 31            |
| KDE1204PKV3 | MS.A.GN | ●                            | 12                         | 0.03                      | 0.4                             | 5200           | 6.3                  | 0.11                                          | 18.0           | 31            |
| KDE2404PKVX | MS.A.GN | ●                            | 24                         | 0.064                     | 1.5                             | 8200           | 10.8                 | 0.27                                          | 27.5           | 31            |
| KDE2404PKV1 | MS.A.GN | ●                            | 24                         | 0.05                      | 1.2                             | 7200           | 8.9                  | 0.21                                          | 25.5           | 31            |
| KDE2404PKV2 | MS.A.GN | ●                            | 24                         | 0.033                     | 0.8                             | 6200           | 7.7                  | 0.16                                          | 21.0           | 31            |



\*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,

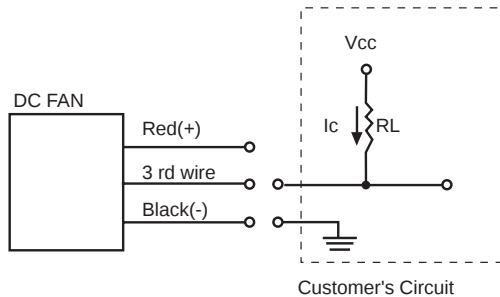
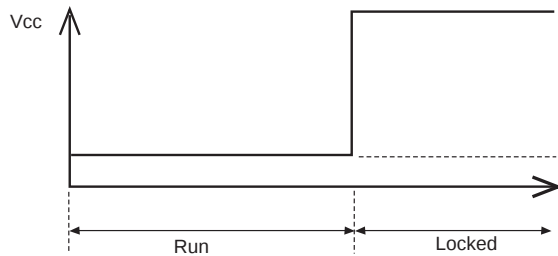
-:Black,

output signal for 3rd wire:

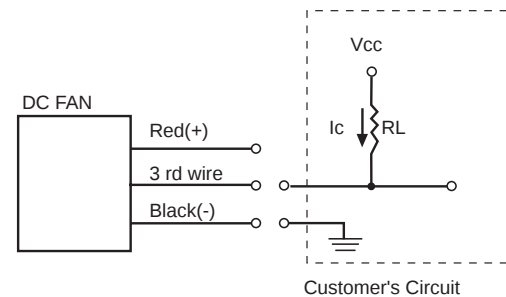
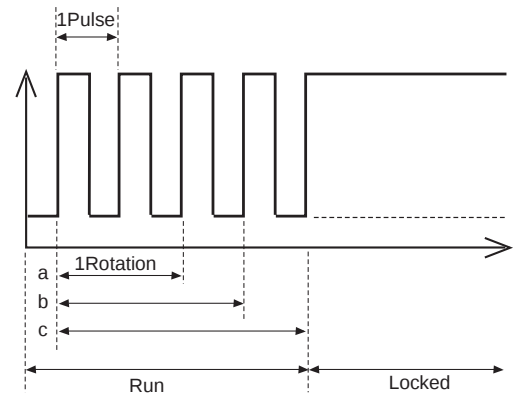
F Type : Yellow

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)

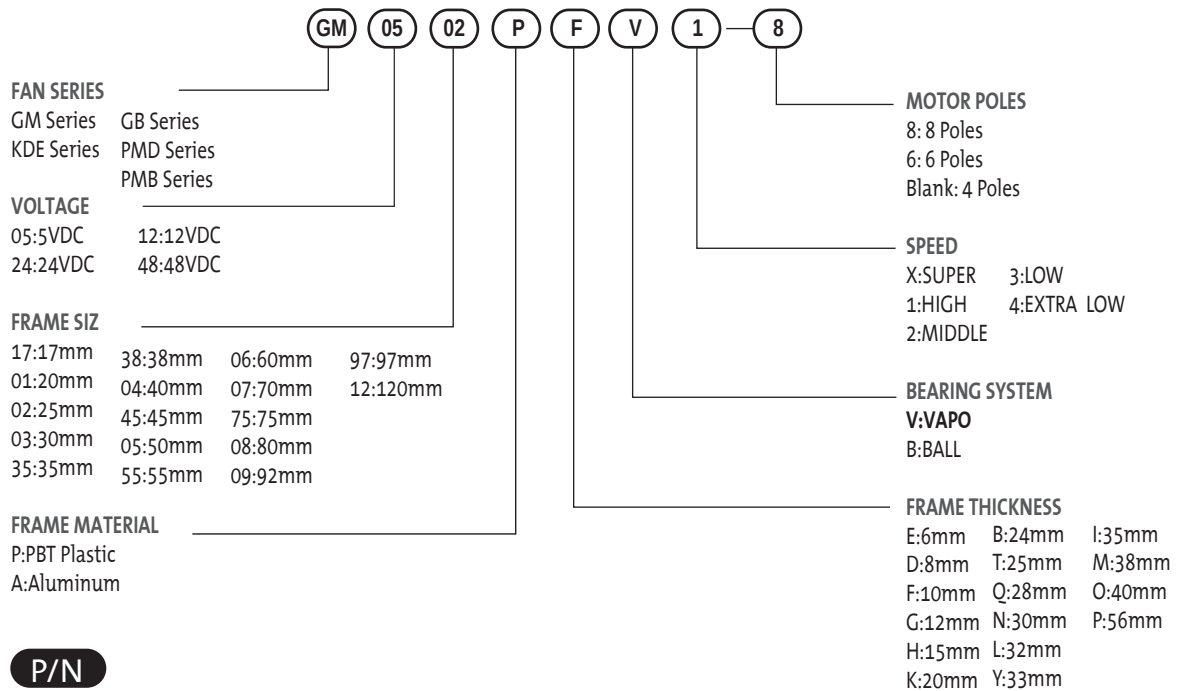
Notice:

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)                              |