

# Fan 3rd Wire Signal

Fan with switching driving circuit designed for rpm measurement:

These fan motors have three lead wires:

+:Red,

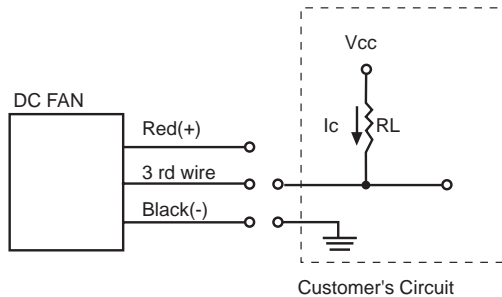
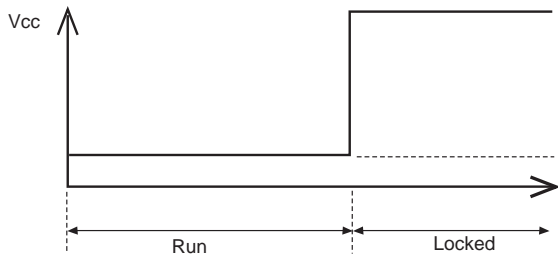
-:Black,

output signal for 3rd wire:

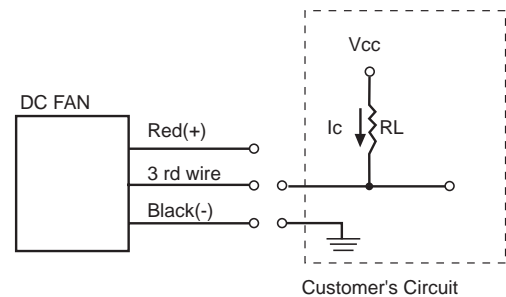
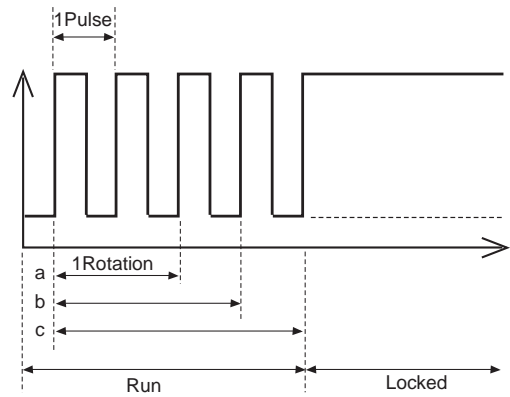
F Type : Yellow

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,

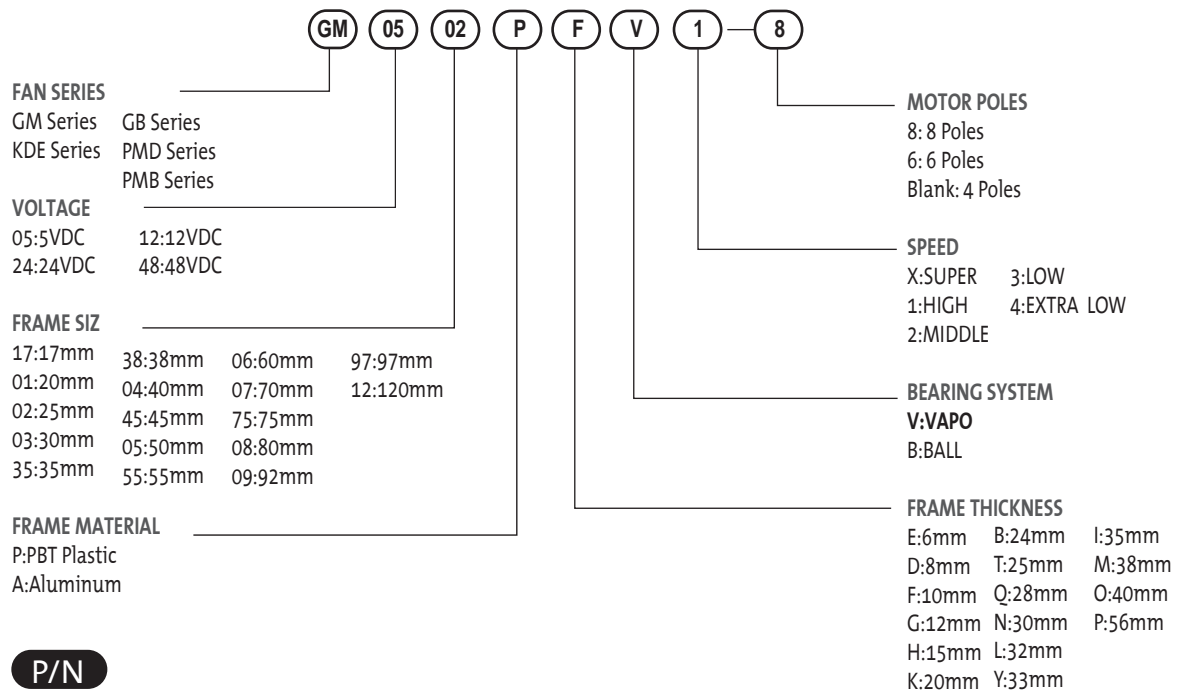
1Rotation=4 pulses, if frequency divided circuit is implemented in this motor then

1Rotation=2 pulses.

## Safety



# DC Fan and Blower Model Numbering System



## P/N

Example: KDE1208PTV1 P/N:13.MS.A.GN

- 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
2.50mm	Molex	6471-031	4809-C-P914
	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
2.50mm	Molex	5051-02	2759T(39-00-0372)
	Molex	5264-02	5263PBT(08-70-1039)

# 80x80x25 mm

# SUNON

## MagLev Power Motor Fan

### 49~60 CFM



Model	P/N	Bearing ● VAPO ⊗ 2BALL	Rating Voltage (VDC)	Power Current (AMP)	Power Consumption (WATTS)	Speed (RPM)	Air Flow (CFM)	Static Pressure (Inch-H <sub>2</sub> O)	Noise (dBA)	Weight (g)
PMD1208PTV1-A	GN	●	12	0.42	5.0	4700	60	0.43	46	100
PMD1208PTV2-A	GN	●	12	0.34	4.1	4300	55	0.36	44	100
PMD1208PTV3-A	GN	●	12	0.27	3.2	3900	49	0.30	41	100
PMD1208PTB1-A	(2).GN	⊗	12	0.40	4.8	4700	60	0.43	47	100
PMD1208PTB2-A	(2).GN	⊗	12	0.34	4.1	4300	55	0.36	45	100
PMD1208PTB3-A	(2).GN	⊗	12	0.26	3.1	3900	49	0.30	42	100
PMD2408PTV1-A	GN	●	24	0.22	5.3	4700	60	0.43	46	100
PMD2408PTV2-A	GN	●	24	0.17	4.1	4300	55	0.36	44	100
PMD2408PTV3-A	GN	●	24	0.14	3.4	3900	49	0.30	41	100
PMD2408PTB1-A	(2).GN	⊗	24	0.21	5.0	4700	60	0.43	47	100
PMD2408PTB2-A	(2).GN	⊗	24	0.17	4.1	4300	55	0.36	45	100
PMD2408PTB3-A	(2).GN	⊗	24	0.13	3.1	3900	49	0.30	42	100
PMD4808PTV1-A	GN	●	48	0.13	6.2	4700	60	0.43	46	100
PMD4808PTV2-A	GN	●	48	0.11	5.3	4300	55	0.36	44	100
PMD4808PTV3-A	GN	●	48	0.09	4.3	3900	49	0.30	41	100
PMD4808PTB1-A	(2).GN	⊗	48	0.13	6.2	4700	60	0.43	47	100
PMD4808PTB2-A	(2).GN	⊗	48	0.11	5.3	4300	55	0.36	45	100
PMD4808PTB3-A	(2).GN	⊗	48	0.09	4.3	3900	49	0.30	42	100

