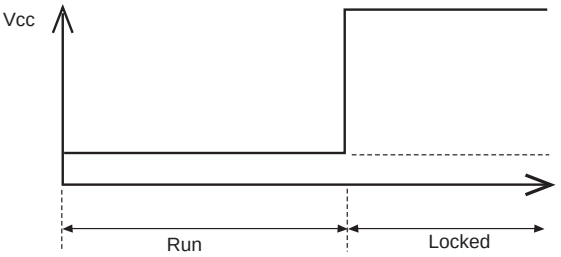
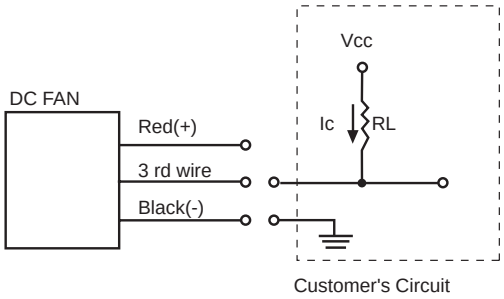
Fan 3rd Wire Signal

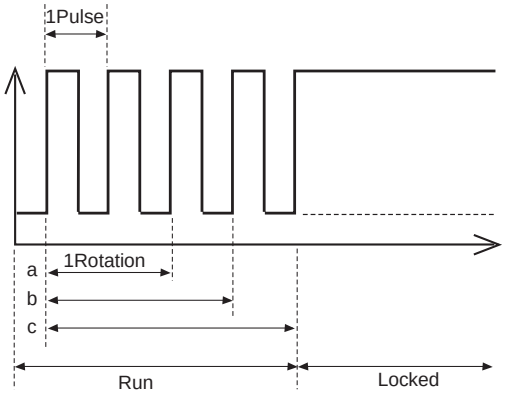
Fan with switching driving circuit designed for rpm measurement:
These fan motors have three lead wires:
+:Red,
-:Black,
output signal for 3rd wire:
F Type : Yellow
R Type : White

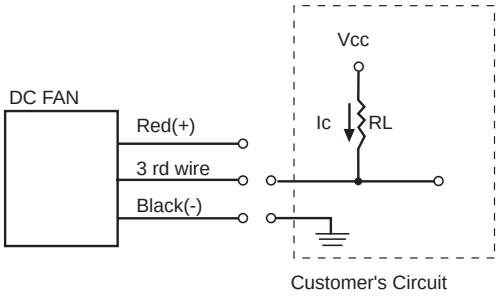
- **R Type** (Rotation Detector)





- **F Type** (Frequency Generator)





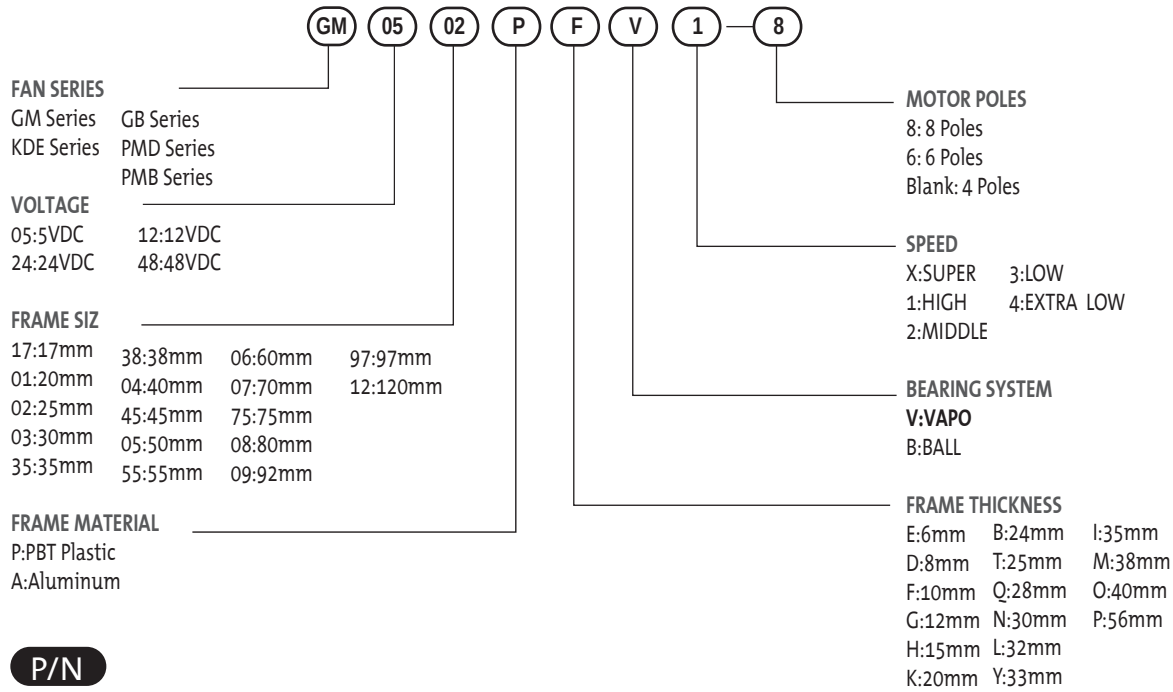
The relationship between rotation & output pulses signal from 3rd wire are as follows:
(a) 1 Rotation=2 Pulses(4 poles' motor)
(b) 1 Rotation=3 Pulses(6 poles' motor)
(c) 1 Rotation=4 Pulses(8 poles' motor)

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

Safety

Certification

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

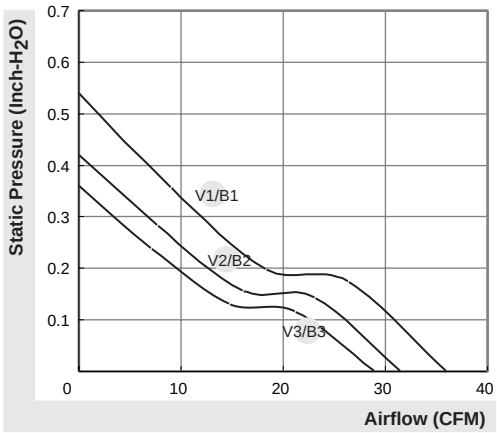
Sunon Connector recommendation

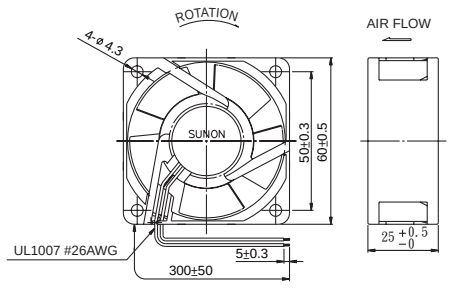
Connector pitch	Manufacturer	Housing	Terminal
1.25mm	HIROSE	DF13-2S-1.25C	DF13-2630SCF
	MOLEX	51021-0300	50058-8200
1.5mm	JST	ZHR-2	SZH-002T-P0.5 or SZH-003T-P0.5
2.0mm	JST	PHR-2	SPH-002T-P0.5S
2.54mm	ECI	2510-02	2511-P
	Molex	50-57-9405	16-02-0069(70058-0004) or 16-02-0082(70058-0006)
	Molex	2695-02RP	2759T(39-00-0372)
	Molex	2695-03RP	2759T(39-00-0372)
	Molex	6471-021	4809-C-P914
	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)

MagLev Power Motor Fan

29~40 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_2O)	Noise (dBA)	Weight (g)
PMD1206PTVX-A	U.GN	●	12	0.446	5.4	7600	40.0	0.64	45	75
PMD1206PTV1-A	U.GN	●	12	0.357	4.3	6900	36.0	0.54	43	75
PMD1206PTV2-A	U.GN	●	12	0.269	3.2	6100	31.5	0.42	41	75
PMD1206PTV3-A	U.GN	●	12	0.235	2.8	5600	29.0	0.36	37	75
PMD1206PTBX-A	(2).U.GN	◔	12	0.41	4.9	7600	40.0	0.64	46	75
PMD1206PTB1-A	(2).U.GN	◔	12	0.325	3.9	6900	36.0	0.54	44	75
PMD1206PTB2-A	(2).U.GN	◔	12	0.258	3.1	6100	31.5	0.42	42	75
PMD1206PTB3-A	(2).U.GN	◔	12	0.217	2.6	5600	29.0	0.36	38	75
PMD2406PTVX-A	U.GN	●	24	0.207	5.0	7600	40.0	0.64	45	75
PMD2406PTV1-A	U.GN	●	24	0.181	4.3	6900	36.0	0.54	43	75
PMD2406PTV2-A	U.GN	●	24	0.131	3.1	6100	31.5	0.42	41	75
PMD2406PTV3-A	U.GN	●	24	0.114	2.7	5600	29.0	0.36	37	75
PMD2406PTBX-A	(2).U.GN	◔	24	0.197	4.7	7600	40.0	0.64	46	75
PMD2406PTB1-A	(2).U.GN	◔	24	0.158	3.8	6900	36.0	0.54	44	75
PMD2406PTB2-A	(2).U.GN	◔	24	0.121	2.9	6100	31.5	0.42	42	75
PMD2406PTB3-A	(2).U.GN	◔	24	0.104	2.5	5600	29.0	0.36	38	75
PMD4806PTVX-A	U.GN	●	48	0.114	5.5	7600	40.0	0.64	45	75
PMD4806PTV1-A	U.GN	●	48	0.099	4.8	6900	36.0	0.54	43	75
PMD4806PTV2-A	U.GN	●	48	0.078	3.7	6100	31.5	0.42	41	75
PMD4806PTV3-A	U.GN	●	48	0.069	3.3	5600	29.0	0.36	37	75
PMD4806PTBX-A	(2).U.GN	◔	48	0.112	5.4	7600	40.0	0.64	46	75
PMD4806PTB1-A	(2).U.GN	◔	48	0.09	4.3	6900	36.0	0.54	44	75
PMD4806PTB2-A	(2).U.GN	◔	48	0.072	3.5	6100	31.5	0.42	42	75
PMD4806PTB3-A	(2).U.GN	◔	48	0.068	3.3	5600	29.0	0.36	38	75





(Units : mm)