Specification For Approval

Customer : STD

Description : EC FAN

Customer Part No. : Rev :

Delta Model No. : GTW017EUB12 Rev : 00

Safety Model No. : GTW017EUB12

Sample Issue No. :

Sample Issue Date :

Please send one copy of this specification back after you signed approval for production pre-arrangement

Approved by :

Date :

sales@fansco.com
www.fansco.com

*** SAMPLE HISTORY***

CUSTOMER: STD

CUSTOMER P/N:

DELTA MODEL: GTW017EUB12

REV.	DESCRIPTION	DRAWN	CHECKED		APPROVED	ISSUE DATE
			ME	EE		
00	ISSUE SPEC.	邱奕清	邱奕清05/17'16	林永祥05/17'16	游博皓05/17'16	05/17'16

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GTW017EUB12

Electronically Commutated (EC) Fan

Axial Fan

(200 x 122 mm)

GTW017EUB12 Delta Datasheet
sales@fansco.com
www.fansco.com

Technical features

Input Side	
Input Source	1~ 200Vac - 240Vac
Power @ Free air	185W
Power @ Max. load	240 W
Power On Label	240W
Output Side	
Speed (RPM)	5800
Qmax. (CMH / CFM)	1177/ 693
Pmax. (Pa / inAq)	844 / 3.39
Noise (dB-A)-FREE AIR	70.5
Functions	
Speed Control input 0-10VDC or PWM pattern.	
Output +12VDC(±10%), max. 5mA.	
Locked rotor protection, Soft start.	
Fan speed signal output	

Physical	
Rotation Direction	CCW seen on rotor
Material (Impeller / Frame)	Plastic / Die-Cast Aluminum
Bearing system	Ball bearings
Weight (kg)	2.7
Electrical leads	Lead wire
Environmental	
Operating temperature range	-25 ~ +60 ℃
Storage temperature range	-40 ~ +70 ℃
Safety	
Safety	UL & CSA & TUV & CE
IP Level	IP54
EMC	EN61000-6-1 , EN61000-6-3 , EN61000-3-2/3
Protection class	I
Insulation class	A
Leakage current	≤ 3.5 mA
Motor protection	Over temperature protected
Life expectance	60,000 hrs. at 40 ℃ / 15 ~ 65 %RH

NOTE : Delta reserves the right to change specifications and other product information without prior notice.

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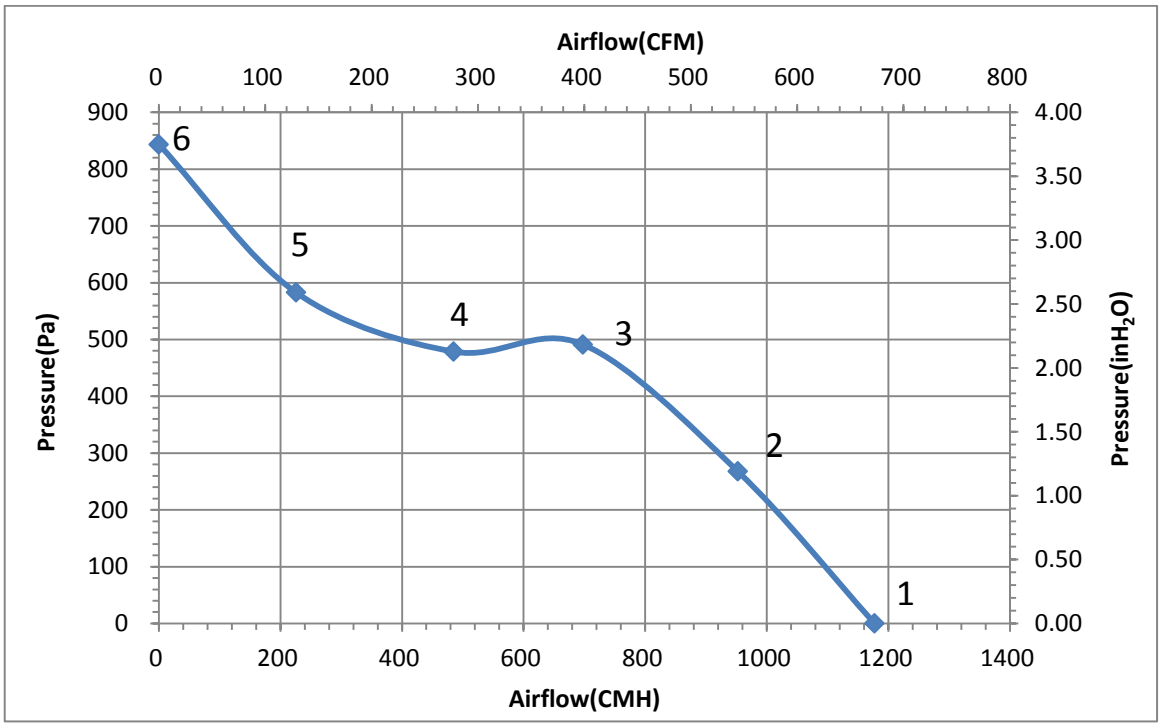
P & Q curves



Measure data:

	P [Pa]	Q [CMH]	N [R.P.M.]	P1 [W]	I [A]	Lp [dB(A)]
1	0	1177	5770	185	0.9	70.5
2	268	952	5650	203	1.0	
3	491	697	5653	207	1.0	
4	479	485	5757	189	0.9	
5	583	225	5670	205	1.0	
6	844	0	5478	235	1.1	

Test Condition：

- Input Voltage: Nominal Voltage
- Temperature : Room Temperature
- Humidity : 65%RH
- Measured without fanguard
- Noise (Lp) is measured at a distance of one meter from the intake side.

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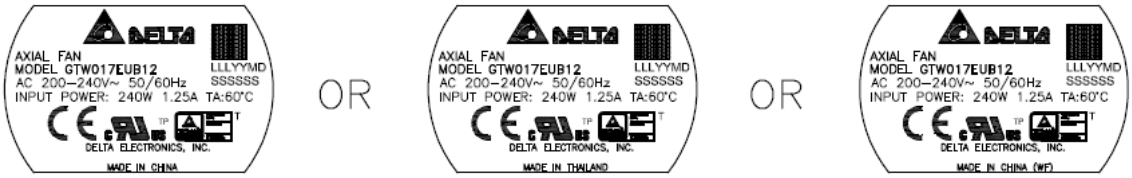
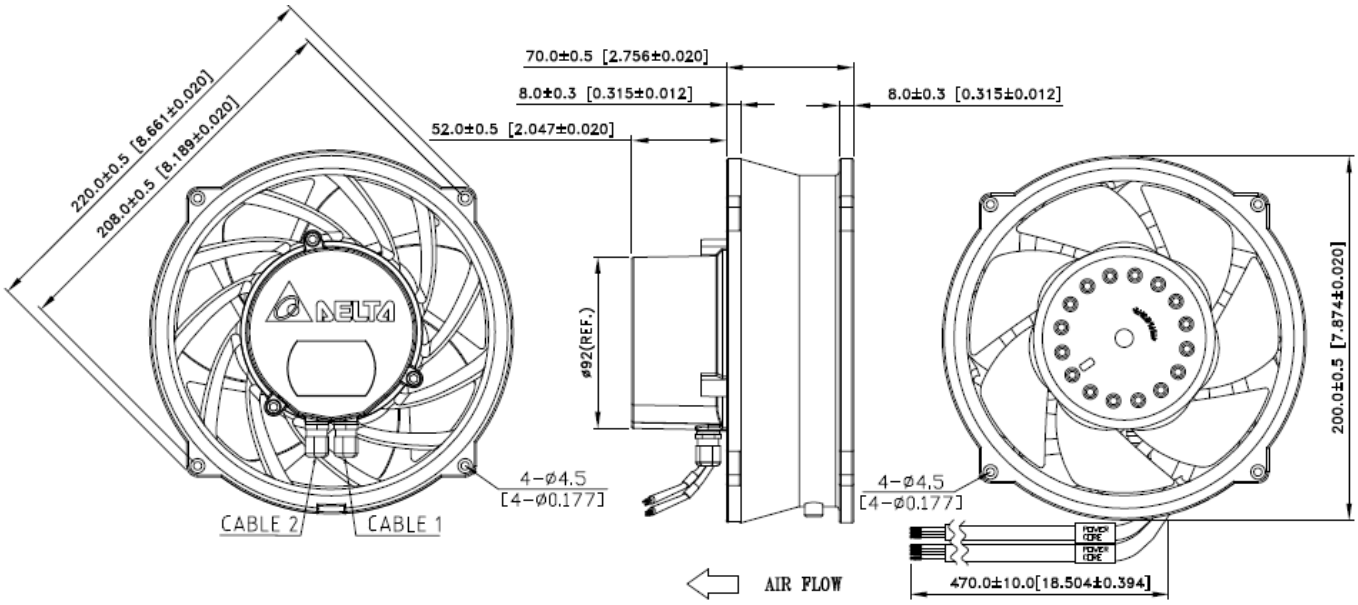
Dimension drawing

Label :



Fan :



UNIT: mm[INCH]

Cable	WIRE TYPE	Color	Functions
1	UL2464 24#AWG	Green	Ground
		Red	+12 VDC output MAX.5mA
		White	FG O/P
		Yellow	Speed control(0-10VDC/PWM)
2	UL2464 18#AWG	Brown	Line/ AC main (1~ 200-240VAC)
		Blue	Neutral/ AC main (1~ 200-240VAC)
		Green / Yellow	Protective Earth

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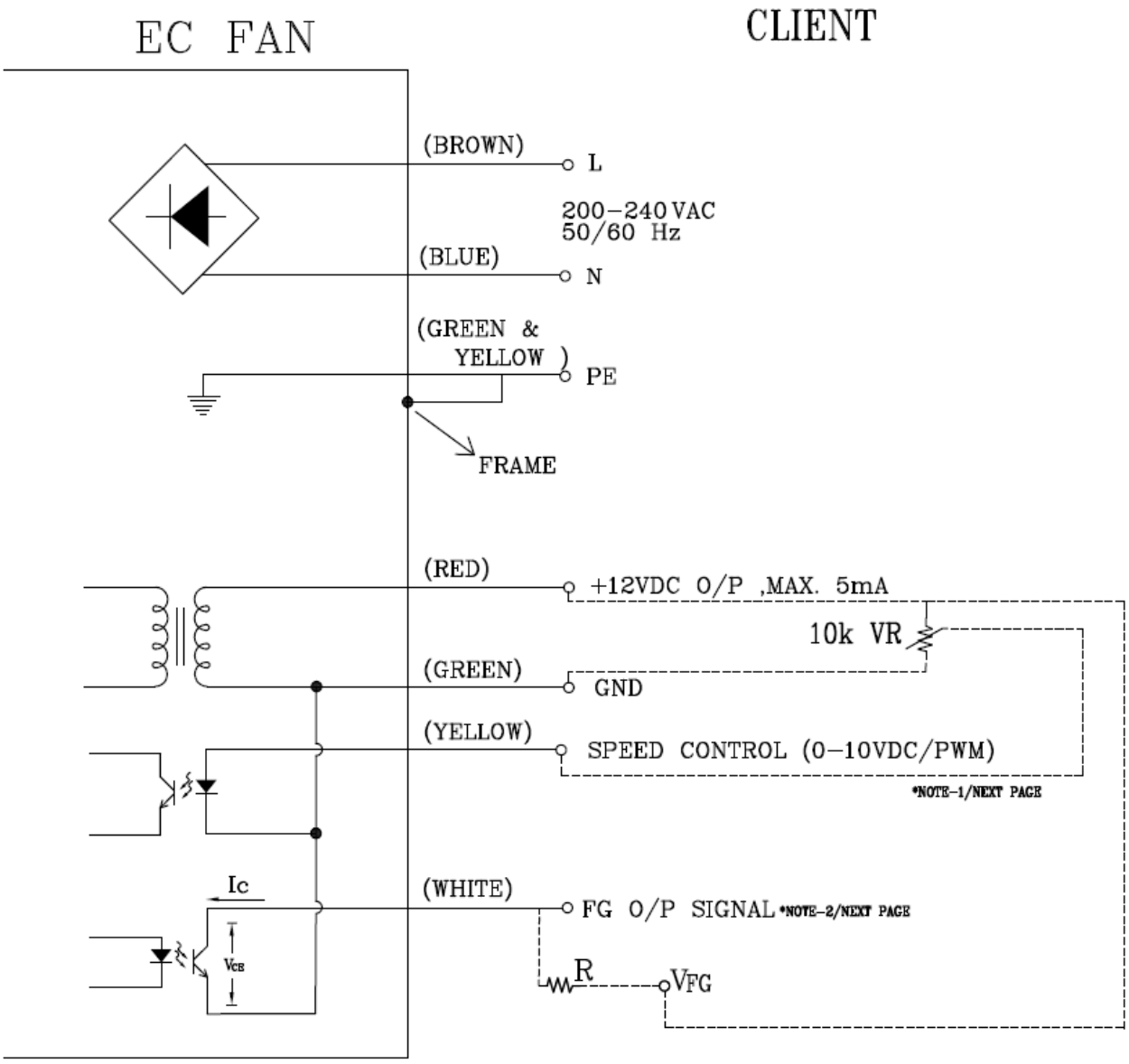
Lead wire connection



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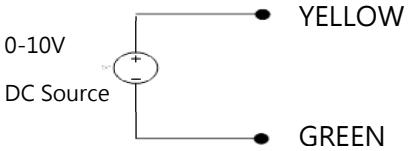
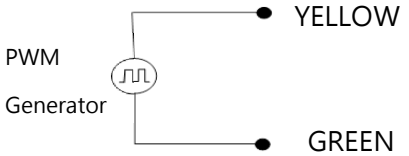
Speed setting	
Full Speed  	**Short RED & YELLOW** Fan will run full speed.
Voltage Control  	**Use voltage source support 0~10VDC voltage** DC+ : connector YELLOW DC - : connector GREEN -Voltage higher than 1.5 VDC, fan start up. -Voltage at 10 VDC , the fan will spin at full speed
PWM Control  	**PWM duy control** PWM amplitude is 10VDC(+-5%) Frequency Range is 100Hz ~ 100kHz -PWM duty higher than 15%, fan start up。 -PWM duty at 100% , the fan will spin at full speed

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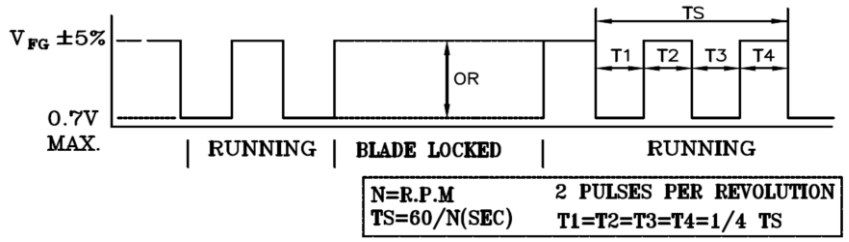
<table>
<tr><th colspan="2">Signal function</th></tr>
<tr><td>Voltage control</td><td>The speed comparison will control level
<table>
<tr><th>Voltage (V)</th><th>Speed (RPM)</th></tr>
<tr><td>0</td><td>0</td></tr>
<tr><td>5.0</td><td>3550±8%</td></tr>
<tr><td>10</td><td>5800±5%</td></tr>
</table></td></tr>
<tr><td>FG</td><td>V_{CE}(sat) = 0.7V MAX. V_{FG} = 20.0V MAX.
I_C = 5mA MAX. R ≥ V_{FG} / I_C
Frequency generator waveform
 
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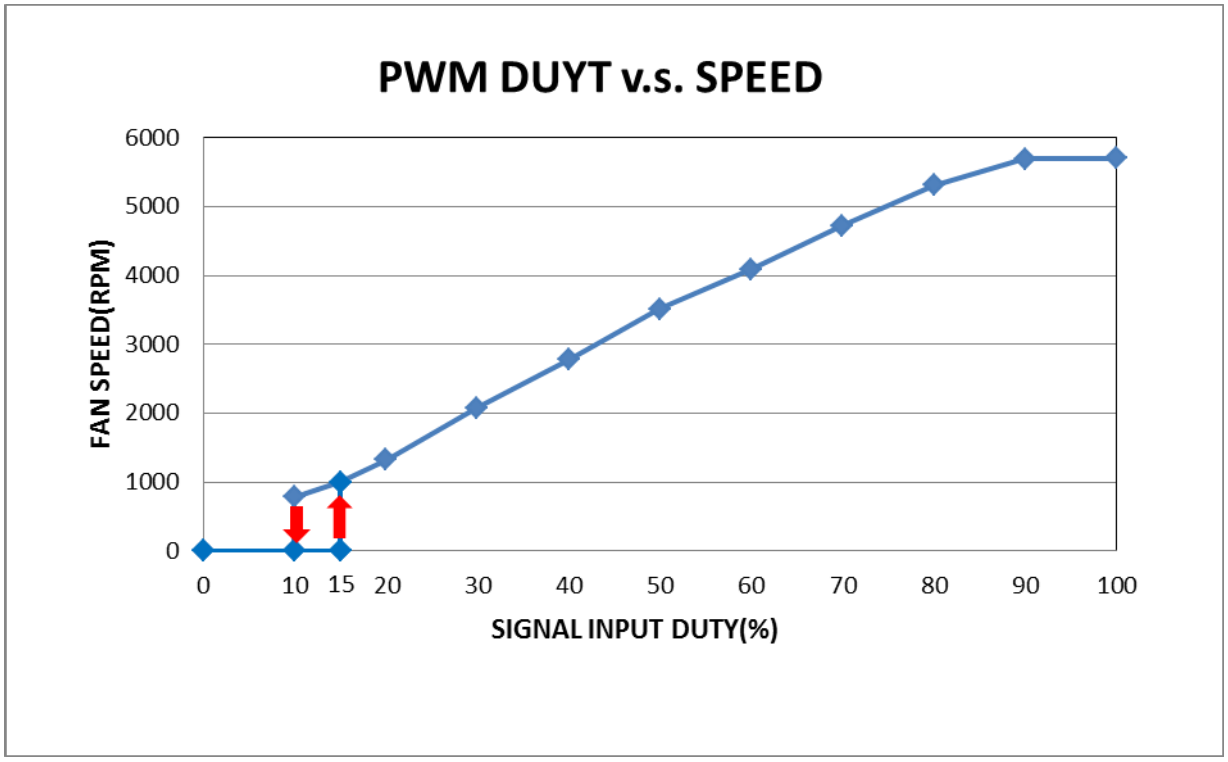
DUTY & SPEED CURVE: (PWM PIN)

Voltage(V)	PWM Duty(%)	Speed R.P.M.(ref.)
0.0	0	0
5.0	50	3550±8%
10.0	100	5800±5%



Voltage	0	0.5	1	1.5	2	3	4	5	6	7	8	9	10	VDC
PWM duty	0	5	10	15	20	30	40	50	60	70	80	90	100	%