

DELTA DC Axial Fan - Part Number Definition

AFB 12 12 H E - B F 00
1 2 3 4 5 6 7 8

- SERIES CODE : AFB, AHB, EFB, EHB, FFB, FHB, GFB, NFB, TFB, BFB, KFB, KHB, SFB
- FRAME DIMENSION:
 - 02 : 125 x 38 x 45 mm
 - 03 : 30 mm SQUARE or 180 x 38 x 45 mm
 - 032 : ϕ 32 x 9 mm
 - 035 : 35 mm SQUARE
 - 04 : 40 mm SQUARE or 42 x 45 x 19 mm
 - 045 : 45 mm SQUARE
 - 05 : 50 mm SQUARE or 51 x 51 x 15 mm
 - 06 : 60 mm SQUARE
 - 07 : 70 mm SQUARE or 75 x 75 x 30 mm
 - 08 : 80 mm SQUARE
 - 09 : 92 mm SQUARE
 - 10 : 97 x 94 x 33 or ϕ 100 x 46.8 mm
 - 12 : 120 mm SQUARE or 125 x 126 x 34 mm
or 120 x 120 x 32 mm
 - 13 : 127 mm SQUARE or ϕ 133 x 61.5 mm
 - 14 : 140 mm SQUARE
 - 15 : 172 x 150 mm
 - 16 : 159 x 165 x 40 mm
 - 17 : ϕ 172 mm or ϕ 175 x 69.0 mm
- OPERATION VOLTAGE
 - 05 : DC 5V 12 : DC 12V 24 : DC 24V 48 : DC 48V
- SPEED (RPM) :
 - L : LOW M : MEDIUM H : HIGH HH : EXTRA HIGH
 - VH : VERY HIGH SH : SUPER HIGH EH : EXTERNAL HIGH
- FRAME THICKNESS - (BLANK) : 25.4MM
 - A : 10 mm C : 13 mm B : 15 mm D : 20 mm
 - N : 28 mm F : 32 mm
 - E : 38 mm or RIGHT SIDE EXHAUST (INTAKE VIEW FOR BFB SERIES)
 - G : 50.8 mm or 48mm S : 55 mm T : 69.0 mm W : 76.2 mm
 - GH : GRAND HIGH SPEED UH : ULTRA HIGH SPEED DH : DRASTIC HIGH SPEED
 - XH : EXTREME HIGH SPEED
- FRAME TYPE: (BLANK) : FLANGE TYPE
 - B : RIB TYPE (10mm, 13mm, 15mm, 20mm THICKNESS) M : METAL FRAME
- SIGNAL OUTPUT :
 - F : FREQUENCY GENERATOR OUTPUT (SPEED SENSOR) OR TACH OUTPUT
 - R : ROTATION DETECTOR OUTPUT (FAILURE DETECTOR)
- SIGNAL OUTPUT VOLTAGE :
 - 00 : VCC (OPEN COLLECTOR)

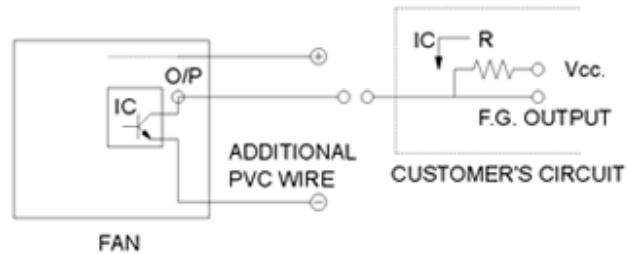
Note

3. Frequency Generator O/P: (F00).

Frequency Generator O/P: (F00)

Frequency generator function is activated by an internal IC for customer's application.

Electrical schematic:



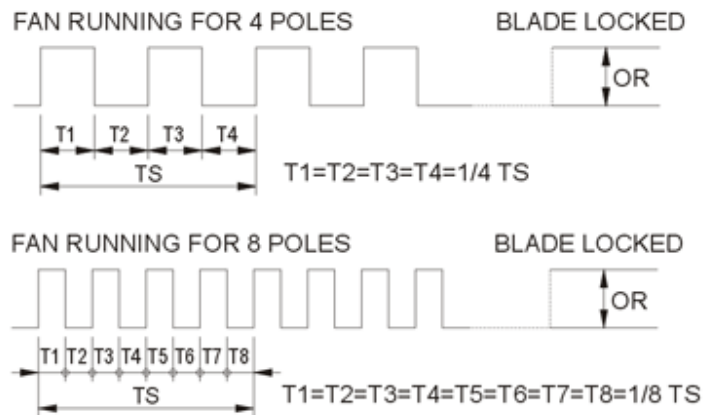
CUSTOMER'S CIRCUIT

V_{cc} = From +5 To +28 VDC (Generally using +12 or +24 VDC)

I_c = 5 mAmax.

$R = V/I$ (Output "R" value calculation)

• SUPPLY A WAVEFORM:



$N = R.P.M.$ (Rotation speed will be different for various models

L/M/H/HH/VH/SH)

$TS = 60/N$ (Sec)

* Voltage level after blade locked

* 4 POLES OR 8 POLES

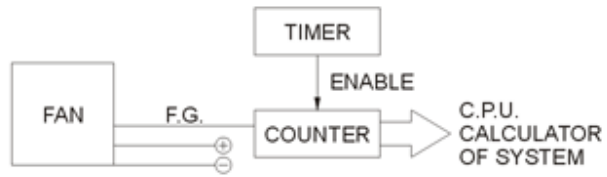
• OUTPUT LEVEL:

High = V_{cc} 10%

Low = 0~0.5V

I_c = 5 mAmax.

• APPLICATION:



• FUNCTIONS:

- By means of waveform & customer's design, schematic can reach alarm function, either in the form of buzzing or LED flashing. Adjust rotation speed.
- When power supply output voltage level decreases, it will result in the lowering of fan rotation speed. The irregular situation will be controlled by using F.G. O/P through P/S circuit to increase the output voltage and result in a stable rotation speed.

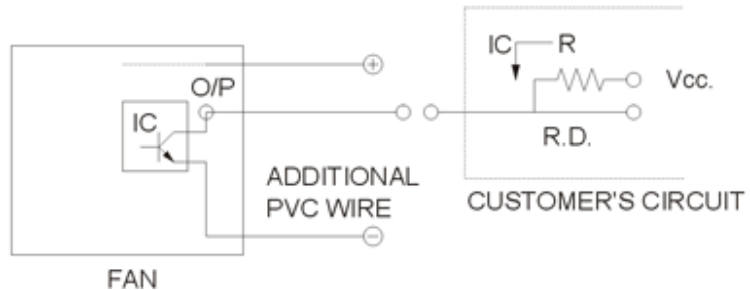
Note

4. Rotation Detection (R00)

Rotation Detector O/P (R00)

Rotation detector function is activated by an internal IC for customer's application.

Electrical schematic:



CUSTOMER'S CIRCUIT

V_{cc} = From +5 To +28 VDC (Generally use +12 or +24 VDC)

I_c = 5 mAmax.

$R = V/I$ (Output "R" value calculation)

- SUPPLY A WAVEFORM:

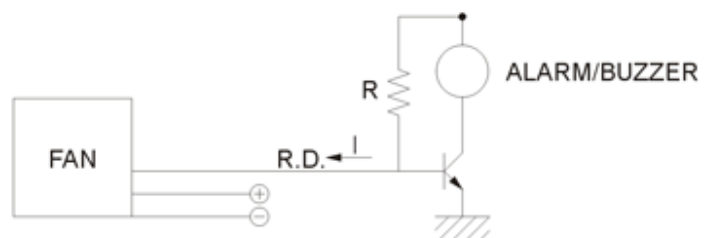


- OUTPUT LEVEL: High = V_{cc} 10%

Low = 0-0.5V

I_c = 5 mAmax.

- APPLICATION:



- FUNCTION:

By means of waveform & customer's design, schematic can reach alarm function: either in the form of buzzing or LED flashing.