



DONGGUAN PROTECHNIC ELECTRIC CO., LTD.

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

MODEL: MGT1724HB-R51-IP68Series: IP Series

P/N: _____

Rev: 00Date: Mar.13.2014CUSTOMER APPROVAL
APPROVED / DATE

環境管理物質符合
永立 W-GP-001 之標準

Rev	Date	Description

Notice:

This offer is made according to your current inquiry. Unless otherwise revised, this specification will be final for all future production of orders from your company.

Kindly study in detail and send back to us the specification sheets with your confirmation signature in order to make an arrangement for production.

Approved by	Checked by	Authorized by
成旭平 Mar.13.2014	梁峰/梁錫稿 Mar.13.2014	刘化为/王可威 Mar.13.2014

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PRODUCT SAFETY

1. Protechnic will not guarantee this product if it is used in conditions other than the parameters outlined in this specifications.
2. Please contact Protechnic to confirm any customer requirements not specified in the specification.
3. Please handle fans carefully. Damage may result from pressure to the impeller, carrying by the lead wires, or dropping fans on a hard surface.
4. Items 1-3, mentioned above, are generally pertinent to our products, and should be a first point of reference.
5. It is very important to establish the correct polarity before connecting the fan to the power source, Positive (+) and Negative (-). Damage may be cause by connecting with reverse polarity.
6. Please ensure that fans are stored according to the storage temperature specified. Do not store in a high humidity environment. If fans are stored for more than 6 months, Protechnic recommends testing of fans before using.
7. Not all series fans are provided with the lock rotor protection feature. Damage or failure will result from operating fans without this feature, if the impeller for the fan is in any way hindered or impaired.
8. Install fans carefully. Incorrect mounting or installation may result in excessive resonance, vibration and subsequent noise.
9. Safety is a top priority. Please utilize guard accessories to prevent injury to personnel.
10. Unless otherwise noted, all tests are conducted at 25°C ambient temperature, and 65% relative humidity.
11. When using multiple fans in parallel, connect an 'over 4.7 μ F 'capacitor externally to the fan to prevent abnormity resulting from unstable power.
12. Any change to the parameters specified in this specification will be determined by mutual agreement between both parties. Parameters not specified will be identical to the final sample approved by your company.

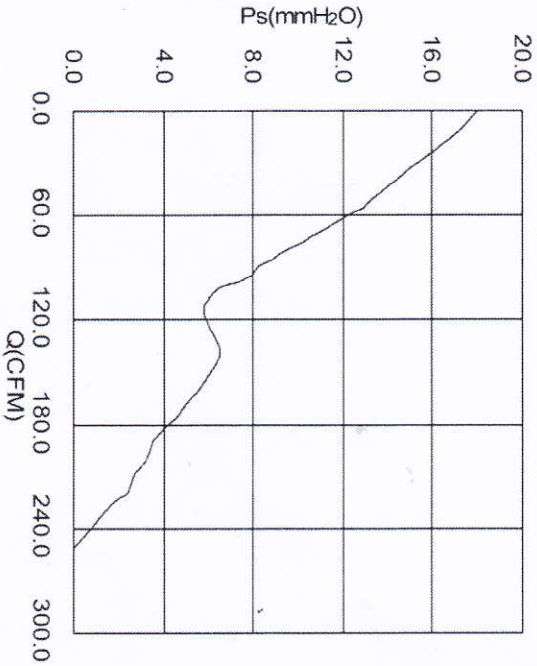
ITEMS	DESCRIPTION
Rated Voltage	D.C. 24V
Operating voltage	D.C. 12V~27.6V
Start up duty cycle	D.C. 12V (At 25°C Power ON/OFF)
Safety Current	0.66A
Operating Current	0.62A (Max 0.66A)
Safety Power	15.84W
Operating Power	14.88W (Max. 15.84W)
Speed	3,350±10%rpm (At 25°C, To record speed after fan running normal, This time about 3~5minutes)
Air flow (at zero static pressure)	251.00CFM(7.110m³/min) Min:225.90CFM(6.399m³/min)
Air pressure (at zero air flow)	18.00mmH ₂ O(0.709inchH ₂ O) Min:14.58mmH ₂ O (0.574inchH ₂ O)
Acoustical noise	55.0dB(A) Max:58.0dB(A)
Life expectancy	70,000hrs continuous at 40°C
Insulation resistance	Min 10Meg Ohm between internal stator and lead wire (+) at 500VDC
Dielectric strength	5mA max at 600VAC 50Hz 1 second between frame and (+) terminal
Operating temperature and humidity	-10°C to 70°C, 5% to 90%RH
Storage temperature and humidity	-40°C to 70°C, 5% to 95%RH
Ingress protection rating	IP 68
Lock rotor protection	Yes

Noise Test: (ISO10302)

- 1.Measurement within anechoic chamber under free air condition
- 2.Microphone is placed at a distance of 1m on the axis of air intake side
- 3.Chamber background noise max 6.7dB(A)
- 4.Using microphone: G.R.A.S 1/2 inch measure system 40AE+26CA or 1 inch low measure system 40HF
5. Test system: National Instrument NI-4474 data acquisition system
- 6.Acoustical noise at rated speed



PQ curve: (Rated Voltage or rated voltage at 100%PWM if applied)

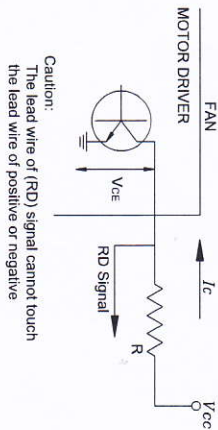


Output of rotary Signal:

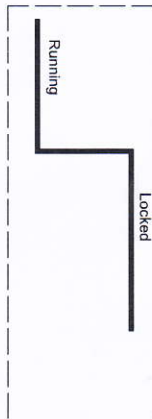
1. Output method- open collector methed

2. Circuit Specification:

2-1. Specification:
Vcc:=30V MAX
Vce(sat):=1.0V MAX
Ic=5mA MAX
R ≥ Vcc/Ic



2-2. Alarm signal Waveform:



Ingress protection rating: IP 68 (IEC 529)

Example of protection category:

IP

6

8

Identity letters

First identity number

Second identity number

First identity

number

contact and foreign object protection

6

Protection against the entry of dust (dustproof). Complete contact protection.

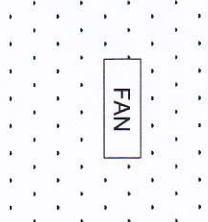
Second identity

number

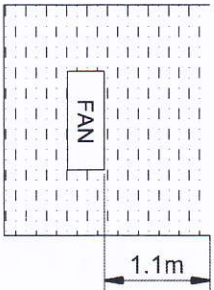
Water protection

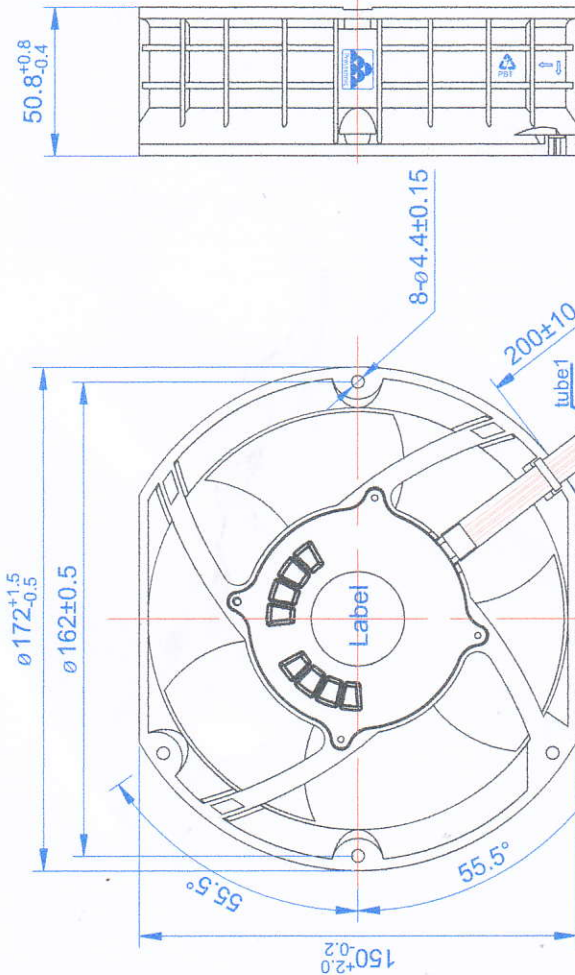
8 The enclosure is suitable for constant submersion in water under given conditions which are determined by the manufacturer(submersion). This protection normally means that the operating equipment is airtight. Under certain operating conditions, however, water can enter providing it produces no harmful effects.

First digit: Dust-tight. (Please put fan into a vacuum of 20millibar. After 8hours, Dust should not enter fan inside.)

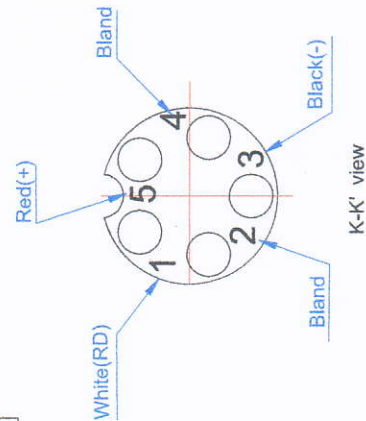


Second digit: Protected against continuous immersion (1.1 meter, 35 minutes)





UL1007 AWG24#.



ITEMS	DESCRIPTION	REMARKS
Frame base	Die-casting Aluminum	
Frame	Plastic UL: 94V-0	
Impeller	Plastic UL: 94V-0	
Weight	790g	
Bearing	Dual ball bearings	
Housing	F-12M-5PIN	
Terminal	N/A	
Tube1	Silicon rubber tube ø6.0mm	
Tube2	Black PVC tube ø5.28mm	
Tube3	Black PVC tube ø4.22mm	
Label	ø32mm Material: PET	Protechnic



MGT1724HB-R51-IP68

24V 0.66A



PROTECHNIC ELECTRIC
MADE IN CHINA

DC BRUSHLESS FAN

Unit

mm

PROTECHNIC ELECTRIC