



**SHYUAN YA**  
臺灣玄亞風機

**SHYUAN YA ENTERPRISE CO., LTD**

No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

## SPECIFICATION FOR APPROVAL

**CUSTOMER:**

**MODEL:**

BA1V225-107T-FPA-B2-2C

BACKWARD MOTION

**DESCRIPTION:**

AC MOTORIZED IMPELLER

**DRAWN BY:**

DAVID WANG

**CHECKED BY:**

JOE LEE

**AUTHORIZED  
SIGNATURE:**

**CUSTOMER  
APPROVAL:**

SHYUAN YA ENTERPRISE CO., LTD	SPEC. NO.		REVISE DATE	
	ISSUE DATE	6/20/2024	EDITION	
	PAGE	1 OF 7		



**SHYUAN YA**  
臺灣玄亞風機

# SHYUAN YA ENTERPRISE CO., LTD





No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

**MODEL NO.:** BA1V225-107T-FPA-B2-2C

**DESCRIPTION:** AC MOTORIZED IMPELLER

## GENERAL SPECIFICATIONS

01	Outline Dimension	Φ 225x107   mm			
02	Rated Voltage	115   VAC			
03	Voltage Range	85 ~ 125   VAC			
04	Frequency	50/60   Hz			
05	Rated Current	1.14/1.56   A	± 10%	a.   Rated Voltage b.   25°C c.   60~80%RH	
06	Power Consumption	127/177   W			
07	Speed	2550/2810   ± 10%   RPM			25°C,   60~80%RH
08	Max. Air Flow	751/824   CFM			25°C,   60~80%RH
09	Max. Static Pressure	1.90/2.58   Inch-H <sub>2</sub> O			25°C,   60~80%RH
10	Noise Level @ 1M	71/75   dB(A)			
11	Rotating Direction	Clockwise viewed from front of fan blade			
12	Operating Temperature	-20°C ~ +60°C			
13	Storage Temperature	-40°C ~ +100°C			
14	Bearing System	Dual Ball Bearing, Permanently Lubricated			
15	Termination	Lead Wire 450mm ,AWG# 20 UL			
16	Insulation	Class B (Optional: Class F)			
17	Capacitor	16uF / 200   VAC			
18	Weight	2370   G			
19	Safety Approvals	CE	UL	CUL	CCC
					

SHYUAN YA ENTERPRISE CO., LTD

SPEC. NO.

ISSUE DATE

PAGE

REVISE DATE

EDITION

6/20/2024

2 OF 7



**SHYUAN YA**  
臺灣玄亞風機

## SHYUAN YA ENTERPRISE CO., LTD

No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

**MODEL NO.:** BA1V225-107T-FPA-B2-2C

**DESCRIPTION:** AC MOTORIZED IMPELLER

### CHARACTERISTICS

01	Motor Design	Capacitor-Run Induction and External Rotor Motor
02	Insulation Resistance	100 Meg ohms Minimum at 500VDC
03	Dielectric Strength	1500 VAC for one minute.
04	Motor Protection	Thermally Protection
05	Noise Level	Measured in a semi-anechoic chamber with background noise level below 6.8dB(A). The fan is running in free air with microphone at a distance of one meter from the fan intake
06	Air Performance	Measured by a double chamber. The value are recorded when the fan speed is stabilized at rated voltage.
07	Vibration	Vibration of acceleration 1.5G and Frequency 5~50~5Hz is applied in the 3 directions(X,Y,Z) for 30 minutes, each Direction at the cycle of 1 minute.

**SHYUAN YA ENTERPRISE CO., LTD**

**SPEC. NO.**

**ISSUE DATE**

**PAGE**

**6/20/2024**

**3 OF 7**

**REVISE DATE**

**EDITION**



**SHYUAN YA**  
臺灣玄亞風機

# SHYUAN YA ENTERPRISE CO., LTD

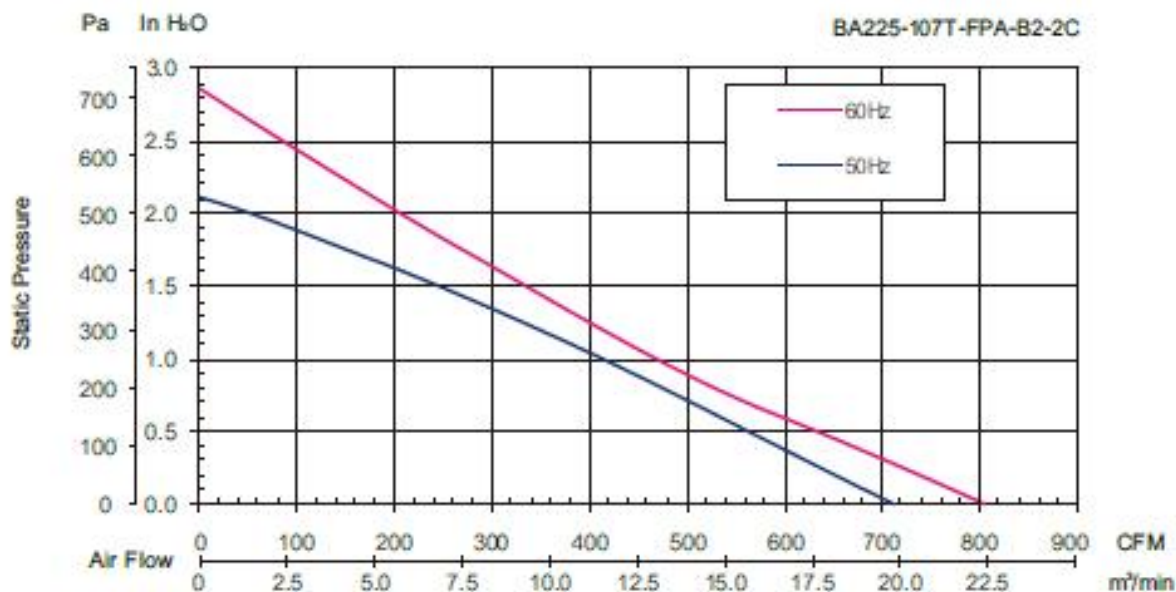
No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

**MODEL NO.:** BA1V225-107T-FPA-B2-2C

**DESCRIPTION:** AC MOTORIZED IMPELLER

## PERFORMANCE CURVES



SHYUAN YA ENTERPRISE CO., LTD

SPEC. NO.

ISSUE DATE

PAGE

6/20/2024

4 OF 7

REVISE DATE

EDITION



SHYUAN YA  
臺灣玄亞風機

SHYUAN YA ENTERPRISE CO., LTD

No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

MODEL NO.: BA1V225-107T-FPA-B2-2C

DESCRIPTION: AC MOTORIZED IMPELLER

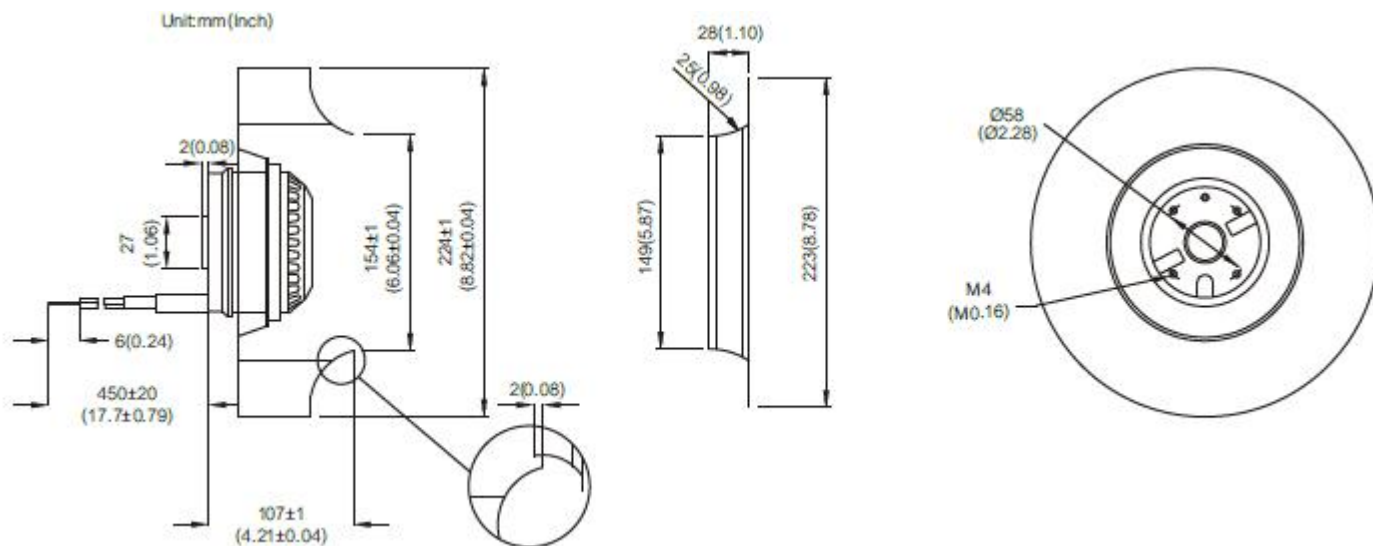
#### MAIN MATERIAL

Blade/Impeller: Black Paint Plastic PA6 (Polyamide Glass-fiber Reinforced)

One Piece Injection Finish

Rotor: Black Paint

#### OUTLINE DIMENSIONS



\* **Caution: Assembly screw mounted in the MOTOR length is not more than 5mm**

\* **注意：安装螺丝的螺柱旋入电机的安装孔的深度不可超过 5mm**

SHYUAN YA ENTERPRISE CO., LTD

SPEC. NO.

ISSUE DATE

PAGE

6/20/2024

5 OF 7

REVISE DATE

EDITION



**SHYUAN YA**  
臺灣玄亞風機

## SHYUAN YA ENTERPRISE CO., LTD

No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

**MODEL NO.:** BA1V225-107T-FPA-B2-2C

**DESCRIPTION:** AC MOTORIZED IMPELLER

FAN PHOTO



Note: The above picture is for product external view only, May contains difference part number with equivalent appearance

SHYUAN YA ENTERPRISE CO., LTD	SPEC. NO.		REVISE DATE	
	ISSUE DATE	6/20/2024	EDITION	
	PAGE	6 OF 7		



**SHYUAN YA**  
臺灣玄亞風機

# SHYUAN YA ENTERPRISE CO., LTD

No 118-1, Houjhuang Lane, Renwu Township  
Kaohsiung County 814, Taiwan

Email: [infous@shyuanya-cn.com](mailto:infous@shyuanya-cn.com) Web: [www.shyuanya-cn.com](http://www.shyuanya-cn.com)

**MODEL NO.:** BA1V225-107T-FPA-B2-2C

**DESCRIPTION:** AC MOTORIZED IMPELLER

## REMARKS

1. SHYUAN YA will not assume responsibility for the performance of the products if the application conditions falls outside the parameters stated forth in this specification.
2. A written request should be submitted to SHYUAN YA prior to approval if abnormality and deviation from this specification is required.
3. Please be cautious when fan is being exercised or handled. Damages may be resulted when apply pressure to the impeller or hold the fan by the lead wires or drop the fans to the production platform.
4. With exception of suitability of some particular designs, any failure and problems regarding safety of the product caused by the introduction of powder, droplets of water or encroachment of insert in the hub are not guaranteed.
5. All general specifications and quality values are measured under condition of free air and fan vertical set up. SHYUAN YA highly suggests to practice a test when fan apply to a special application.
6. SHYUAN YA fans are not suitable to be used in an environment that contains aggressive or corrosive fluids.
7. Always ensure that fans are stored according to the storage temperatures specified. Do not store in an environment with a high humidity level. If the fans were stored for longer than 6 months, it is highly recommended to apply functional testing before shipping.
8. Except for the feature of the Lock Rotor Protection specifically stated, this feature is not applied to all fans. SHYUAN YA highly suggests not to stop the impellers of the working fans such interruption will cause adverse effect.
9. During installation, please be cautious. SHYUAN YA is not responsible for any excess resonance, vibration and subsequent noise caused by incorrect mounting of fans.
10. During testing it is important to consider safety at all times. A suitable guard should be fitted to the fan to prevent personal injury.
11. All test environments are conducted under the condition of relative(ambient) temperature and humidity at 25°C, 60~80%RH. The test result stated above is effective only for unique fan performance.
12. The above conditions are examples of extreme application. However they are very important and should receive top priority.

SHYUAN YA ENTERPRISE CO., LTD	SPEC. NO.		REVISE DATE	
	ISSUE DATE	6/20/2024	EDITION	
	PAGE	7 OF 7		