To Panasonic Industrial Company

SPECIFICATIONS

Model: UDQFBFM01CP1

Specifications of products: UDQFBFM01CP1 1/11~11/11

Figure of Products : UDQFBFM01CP1-ASE 1/1

DATA $1/3 \sim 3/3$

Please send us back two of specification sheets as soon as you receive these sheets, with your signed approval in order to make quick arrangement for production.

Approved by:

Date :

Kyushu Matsushita Electric Co., Ltd.

Devices and Components Division,

Precision Devices

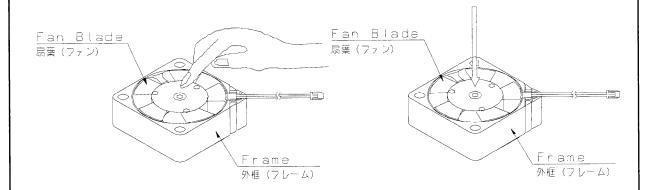
Date: Jun. 26. 2002

IMPORTANT HANDLING PRECAUTIONS 重要事項 冷却ファン取扱い上のお願い (MPU COOLING FAN UDQF SERIES)

1. Please do not touch or push fan blade with fingers or any other objects. Fan blade and bearings may be damaged and a noise defect may result. 請不要用指或其它東西觸壓風葉及軸承因会産成噪音ファンを直接指その他で触ったり押さえたりしないで下さい。 軸受け部にストレスがかかり音不良の原因となります。

DON'T TOUCH! 不要觸摸 触れないで下さい!

DON'T PUSH! 不要觸壓 押さないで下さい!



2. Do not exert excessive force on the back of the fan when applying adhesive mounting tape.

Fan blade extends beyond the front face of the frame.

当風扇倒立時請不要觸壓外框底部因風片及軸承可能造成損壞而產生噪音 当於外框底部貼上膠片時請不要讓扇葉觸・它物體 ファンを下向きにした状態でフレームを押さないで下さい。 軸受け部にストレスがかかり音不良の原因となります。

KYUSHU MATSUSHITA ELECTRIC CO.,LTD Tel (0978)-37-2111 Fax(0978)-37-1948

九州松下電器 ㈱ デバイス事業部 Tel (0978)-37-2111 Fax(0978)-37-1948

SPECIFICATIONS

No. 11-1 MODEL UDQFBFM01CP1

♠PRODUCT SAFETY

MARNING

- 1) We can not guarantee our products if your application exceeds the limitations mentioned in our specifications.
- 2) Please check the safety of your product carefully when installing into your machine.
 - ①Check the safety of the motor in compliance with the application standard of your machine.
 - ②Check the safety of the motor performance in error use under the installed situation, and also check the safety by reliability test.

If problem occurs, please report it to us before the shipment of your machines into the market.

3) This motor is not equipped with a thermo-protector such as thermo-fuse, or current-fuse or thermos protector.

There may be smoking, ignition or electric shock by insulation degradation in cases of motor lock, motor lead short circuit, over load, over voltage or other failure.

Please add the protection circuit on your machine.

- 4) This product has no alarm signal when the motor is locked.

 Make the proper design to your product against the motor lock.
- 5)Please do not touch the live and rotation parts during operation.

 There may be struck by electricity or injury.
- 6) Please be careful when handling the product.
- 7) If you hit or drop this product, the product may be damaged.

 Please be careful when handling and installing this product.
- 8) Please do not injure this product including coil and lead wires when installing or wiring. There may be smoking or fire.

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No.	DATE	No.	REASONS OF CHANGE	WRITTEN	CHECKED

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Specifications of products

No. $11-2$	MODEL	UDQ1	FBFM01	lCP1	
		Issued	APPROVED	CHECKED	DESIGNED
Specification	Specifications of products		R.	S,	K.
Documents		Jun. 26. 2002	(種)	Yoshida	Sakamoto
			A PRISO	11 27 x 2	50 to 1

This specification is applied to the fan motor described below

Model name

MPU Cooling fan

Model number

UDQFBFM01CP1

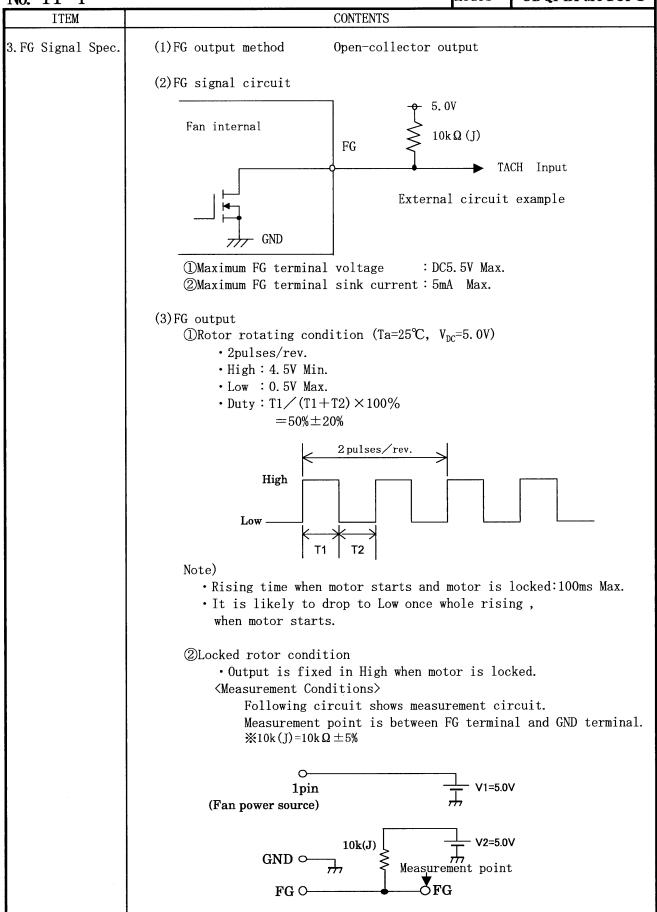
Contents_

- 1. Rating
- 2. Construction
- 3. FG Signal spec.
- 4. Performance
- 5. Temperature rise
- 6. Insulation resistance
- 7. Insulation strength
- 8. Noise level
- 9. Vibration level
- 10. Shockproof level
- 11. Life expectancy
- 12. Name plate
- 13. Packing specifications
- 14. Specifications decision and design modification
- 15. Product use
- 16. Test condition
- 17. Structure and material list
- 18. Name plate
- 19. Package

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No. 11-3			MODEL	UDQFBFM01CP1
ITEMS				
1.Rating	1-1	Voltage	D. C. 5V	
	1-2	Operating voltage	D. C. 4. 5V~5. 5V	
	1-3	Starting voltage	Start at D.C. 3.5V	at25℃
	1-4	Rating time	Continuous rating	
	1-5	Rating current	45 mA	at25℃
	1-6	Suspended current	80 mA	at25℃
	1-7	Operating temperature	$0 \sim 70~^{\circ} C$	
	1-8	Operating humidity	Less than 85 Rh%	
	1-9	Storage temperature	$-20 \sim 70 \degree \mathrm{C}$	
	1-10	Speed	7,800 r/min	at60℃
	1-11	Max. flow rate	$0.040 \text{ m}^3/\text{min}$ N=	7,800 r/min
	1-12	Max. static pressure	24 Pa N=	7,800 r/min
2. Construction	2-1	Construction and mea	surements of appearan	ce
		According to	the attached motor as	sembly drawing.
	2-2	Bearings	Sleeve bearing	
	2-3	Direction of rotation	rC.C.W. (see from fan	side)
	2-4	Weight	approximately 6.5	g

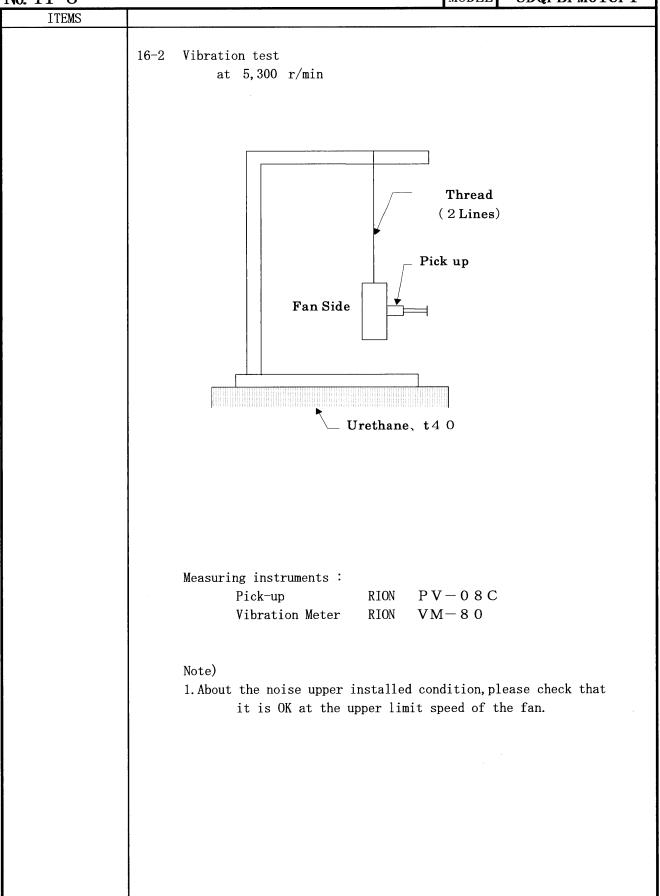
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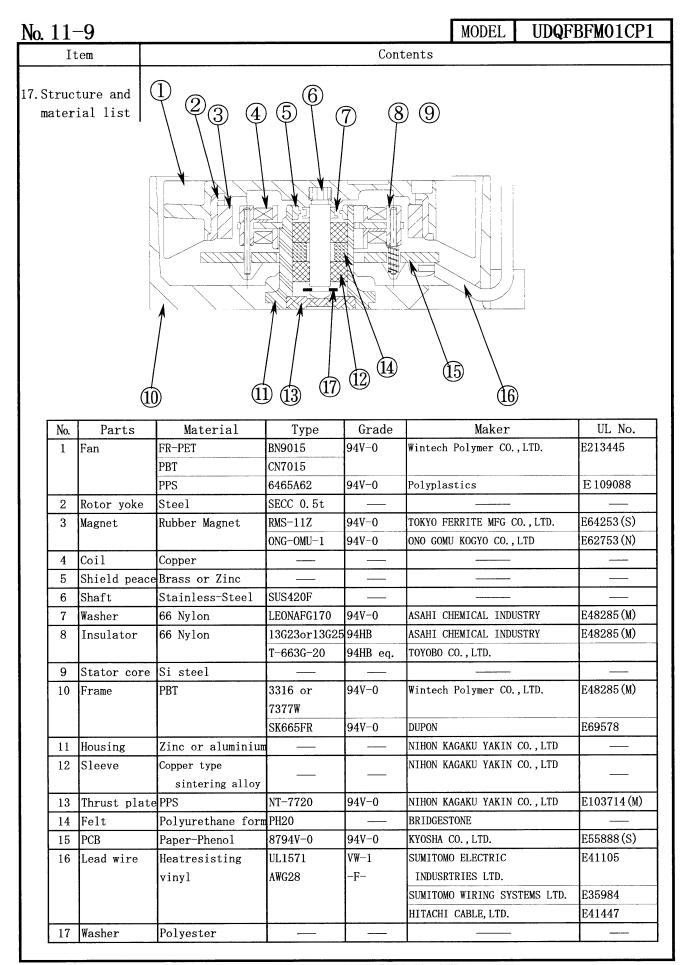
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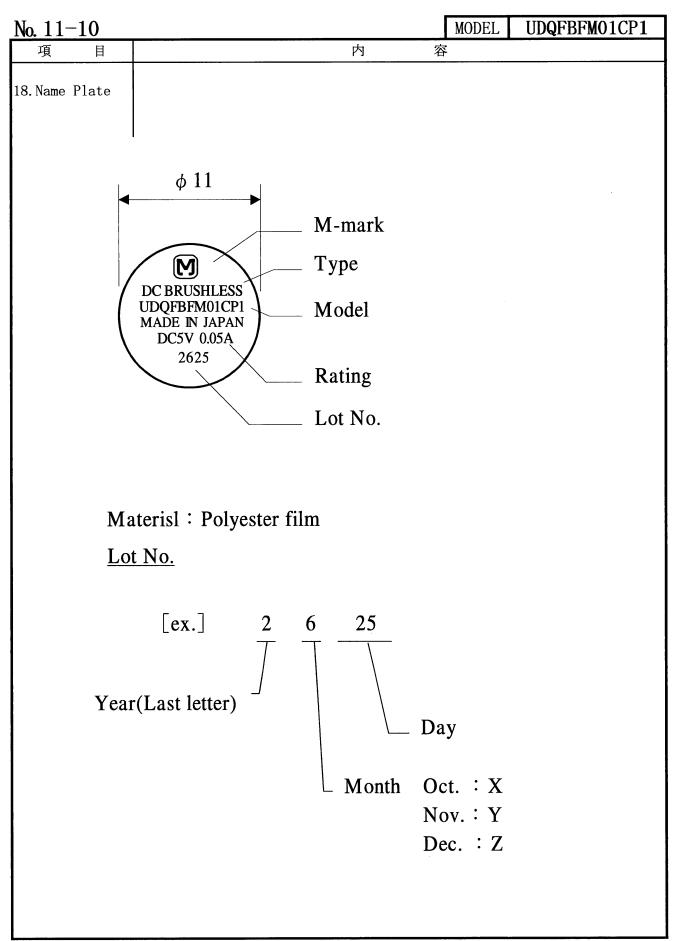
No. 11-5			MODEL	UDQFBFM01CP1			
ITEMS							
4. Performance	Free air performance (Rated voltage DC5.0 V)						
		at25°C	at60	°C			
	Speed (r/min)	$5,300 \pm 25\%$	7,800	±20%			
	Current (mA)	100 Max	100 M	lax			
	(Note)						
	1. Please note the speed va	ries with the a	mbient ter	mperature.			
	(Please refer to the attached sheet)						
	2. Please note that noise le	2. Please note that noise levels vary according to speed.					
	(Please refer to the attached sheet)						
	3. After 3minuites aging.						
	Fan performance						
			at7, 800	r/min			
	Max. flow rate	(m^3/min)	0.030 M	<u>lin</u>			
	Max. static pre	ssure(Pa)	18.0 M	lin			
5. Temperature	Less than 105℃						
rise	by thermo-couple method at	rated voltage,	at DC 5V,	free air			
6. Insulation	More than 10 M Ω						
resistance	by 500 volt D.C. megger, between motor lead and frame						
7. Insulation	Motor is capable of withsta						
strength	A.C. 500 V is applied for one minute (or A.C. 600V for one second)						
	between motor lead and frame (limit current is 5mA)						
		4					
8. Noise level	Less than 38 dB A-ra	inge(test condit	10n 1s sh	own on another sheet)			
0 17:1	7 / 2	(4 - 4 tiat					
9. Vibration	Less than 7 m/s^2	(test condition	on is snow	n on another sheet)			
level							
10 Cl 1	000 / 2 /0						
10. Shockproof	$980 \text{ m/s}^2 \text{ (3msec)}$						
level							
11. Life	at 60°C (Frame temperature	.)20 000 b	oura				
I .	· · · · · · · · · · · · · · · · · · ·		ours				
expectancy	Continuous driving on rated condition. Mean time until the speed becomes 30% down from initial level.						
	mean time until the speed	becomes 30% dow	11 11001 111	itiai level.			
	(Note)						
	The specifications for noi	se and vibratio	n levels	are			
	the original value at the time of shipment and						
	do not refer to the standa						
	la man rate to the branch	F	-				
12. Nameplate	Please refer to the namepl	ate drawing.					
12. Hamopiato	i i i i i i i i i i i i i i i i i i i						
13. Packing	Please refer to the packing	ng drawing.					
specifications							
Specifications	VVIICUII MATCIICUTTA	DI DOMDTO 00 I					

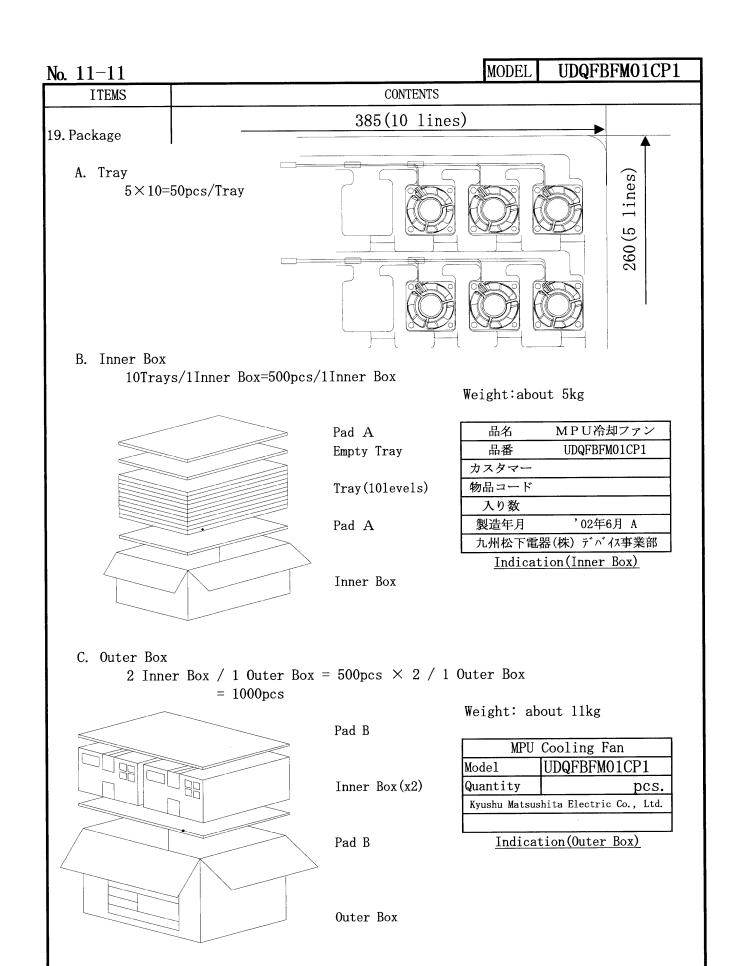
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ITEMS		
14.	14-1	We can advise for the cooling system design and fan installation.
Specifications decision and design modifica -tion	14-2	We have not received UL approval as fan itself. Please check the conformity of regulations at your side with your machine.
-t10n	14-3	Any items in these specifications shall be modified after obtaining your approval.
	14-4	Any items not mentioned in these specifications are the same as the final samples approved by your company. Some items in these specifications may be modified as far as those items meet the content of these specifications.
	14-5	If a certain item is not mentioned in these specifications and you think it necessary to discuss the item, please advise us in advance. Otherwise we will consider there is no specification problem and start shipment as per our specifications.
	14-6	Any modified items emerging from our mutual discussion in advance or from any other occasion shall be mentioned in these specifications, and we should consider these to be the final guaranteed items. If some of those items are missing, please advise us immediately.
	14-7	We need to reinvestigate if you will modify your machine or use our product to another application. Please advise us in advance.
	14-8	If we do not receive an order for your mass-produced models after over one year, we shall consider the mass-production of the model to be finished, and we will stop the mass-production of the model and service parts. If you need such models or service parts, please place the order of necessary quantity before we finish any mass-production. If you have any other requests, please contact our company, or our sales company, within one year of final order.
15. Product use	15-1	In regard to the matching of performance, temperature rise, EMC, setting, life and the quality by dropping shock and etc. when built in your model, please check sufficiently the variation of this product. If there will be any accidents or problems related to this product, the product in question shall be mutually checked and the problem shall be discussed.
	15-2	Please do not touch the fan with fingers or other objects. Fan holders or bearings may be damaged. Please be careful when handling this product.
	15-3	Please pay attention to handling, as internal circuit parts may damage due to static electricity.
	15-4	Please refrain from using this motor in corrosion gas $(H_2S, SO_2, NO_2, Cl_2, etc.)$, or poisonous gas atmosphere, or in place which generates poisonous gas (especially organic silicon, cyanogen, formalin, phenol, etc.). Please confirm if there is above substance or not.
	15-5	We can not guarantee the performance with regard to safety and accident due to dust, water droplets, dew, bugs, and so on. Please confirm well in advance.
	15-6	In case you need the procedure for export, please inform us in advance.

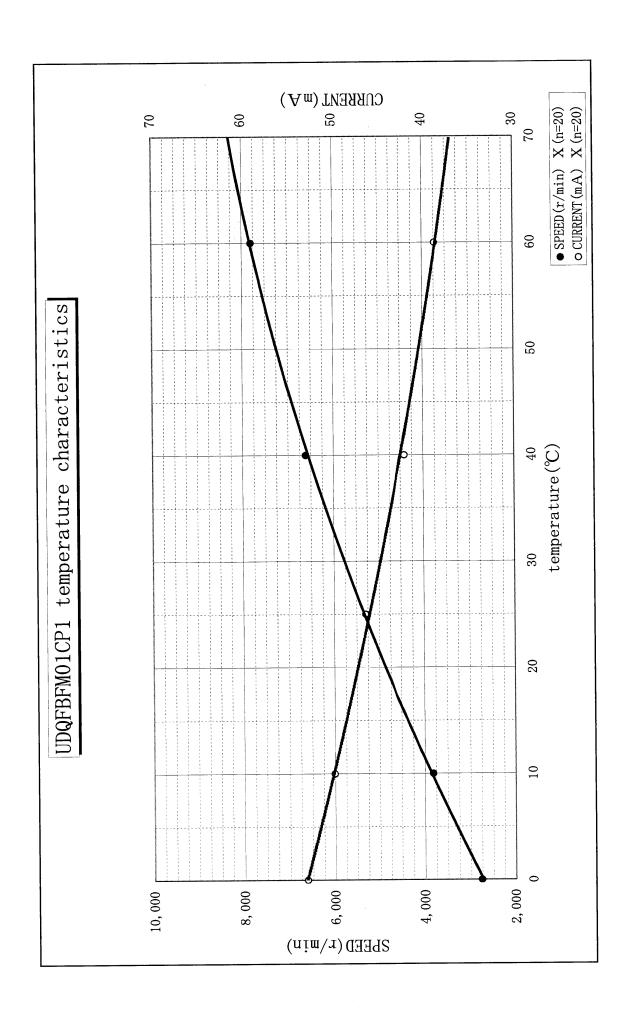


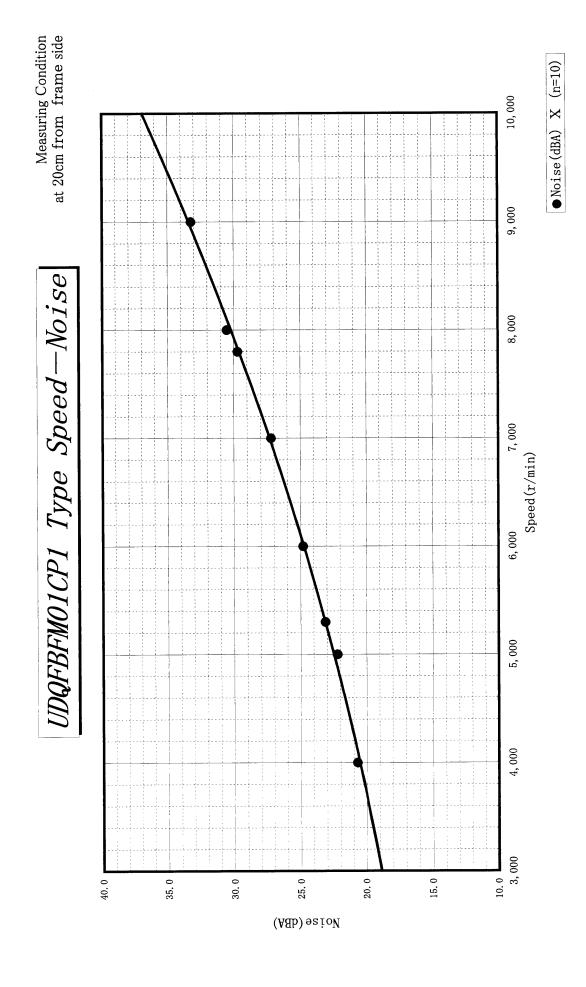
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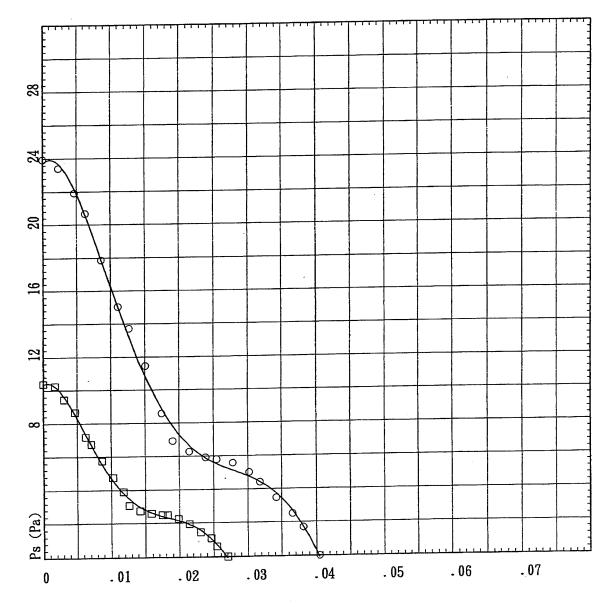
< FAN TEST DATA >

Mark File name Model name

o BFM01_60 UDQFBFM01C

BFM01_25 UDQFBFM01C

Date Source 01/08/22 DC5V 01/08/23 DC5V Remarks 7800 r/min 5300 r/min



Flow Q (m³/min)

< KYUSHU MATSUSHITA ELECTRIC CO., LTD. >

