REF. NO. 19-0974

PROPOSED SPECIFICATIONS FOR APPROVAL

**CUSTOMER** 

勝特力電材超市-龍山店 886-3-5773766 勝特力電材超市-光復店 886-3-5729570 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787

http://www.100y.com.tw

Co. Ltd.

PART NAME

DC FAN MOTOR

MODEL

3110SB-04W-B79-EQ1

DATE 2019/10/23

COVER

<u>1</u>

Page

SPECIFICATIONS

<u>4</u>

Pages

TOTAL

<u>5</u>

Pages

SIGNATURE	-
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PLEASE RETURN 1 COPY OF THIS PROPOSED DRAWING WITH YOUR SIGNATURE.

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For your use in safety



Carefully read the precautions before use and use the motor properly and safely. In "For your use in safety", the rank of safety precautions are being divided into "warning" and "cautions". warning: Due to mishandling, a dangerous condition might occur and there is a possibility of death or serious injury.

Precautions: Due to mishandling, a dangerous condition might occur and ther is possibility of medium human disorder or material disorder. There might be cases where there are heavy damages.



- Do not use in an explosive atmosphere, flammable atmosphere and locations where water falls onto.

  It might cause a fire, injury or electric shock.
- Installation, wiring connection, inspection,etc. Should be done by a person with professional knowledge.
   You might get an electric shock or be injured.
- Do not move, wire or inspect the motor when applying current. You might get an electric shock or be injured.
   After turning switch off, kindly proceed your operations ensuring safety.
- Do not pull out or push in the lead wire when applying current. You might get an electric shock. And do not touch the connection terminals, etc. when applying current. You will get an electric shock.

Precautions

- Whenever the motor is used in any equipment that holds large social and public effects, kindly consider the measures for equipment protection at equipment side once the motor stops rotation.
- As you may get injured, do not put your fingers into the motor while rotation.
   Static electricity causes motor and equipment failures.
- Take appropriate measures against static electricity during installation of motor.
- Do not hold the lead wire part. Might cause the motor to drop off.
- For your use, strictly follow rated operating voltage additionally frequency, in particular,
   AC motors as well as environment in use, such as temperature, humidity range.

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MinebeaMitsumi Inc.	y awaii	Jakan	robidos

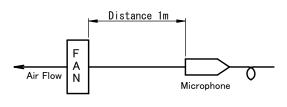


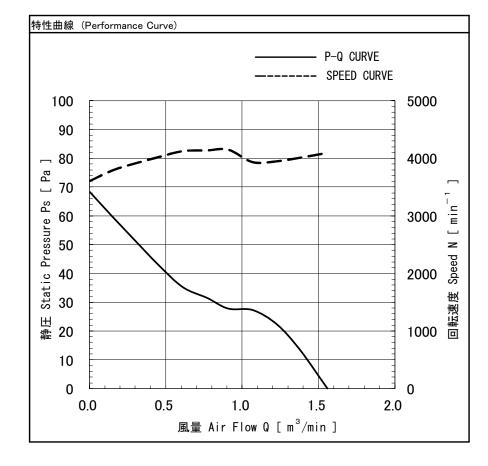
3.暗騒音は16dB以下のこと。

(Chamber back ground noise max 16dB.)

4.騒音は標準回転速度時。

(Acoustical noise at average speed.)





☆1 静圧"0"の時 (At 0 static pressure)

☆2 風量"0"の時 (At 0 air flow)

☆3 フリーエアー時 (At free air)

☆4 室温25°Cにおいて定格電圧印加時 (At rating voltage, at 25°C)



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$\perp$							_		_	١.	_		材質 MATERIAL	作成日 DATE 2016/09/	05
							NMB			læ		mm R度 SCALE		品名 DESCRIPTION	
										🌣	寸法 公差		表面担ち SURF. ROUGH	AUTO RESTART T	YPE
							MinebeaMitsumi Inc.		$\vdash$				DC BRUSHLESS FAN		
Г							APPROVED	CHECKED	DRAWN	— aл	L≦4		熱処理 HEAT TREAT	品番 PART No. (MODEL No.)	葉番 SHEET
										放公	4 <l≦ 16<l≦< td=""><td></td><td></td><td>3110SB-04W-B79-EQ1</td><td>1/4</td></l≦<></l≦ 			3110SB-04W-B79-EQ1	1/4
符	문	個数	日付	変更理由 /	担当	承認	KWI	YSHR	YSTM				表面処理 FINISH	図番 DRAWING No.	改訂 REV.
	SYM		DATE		ENGINEER					TOL	250 <l≦<sup>· 角度DE</l≦<sup>	1000 ±0.8 G ±0.5		3110SB-04W-B79-EQ1	Α

項目(Items)	諸元 (Description)
規格(Standard)	
絶縁抵抗 (Insulation Resistance)	DC 500V メガーにて10MΩ以上 (min 10MΩ by DC 500V Megger) フレームとリード線間 (Between Frame and (+) Terminal)
絶縁耐圧 (Dielectric Withstand Voltage)	AC 700V 1s ☆5 フレームとリード線間 (Between Frame and (+) Terminal)
期待できる寿命 (故障率10%) (Life Expectation (L10 Life))	60℃にて40,000時間 (40,000h at 60℃) 寿命とは、定格電圧印加時の電流値及び回転速度の どちらかが、以下の様になった状態とする。 電流値 : 初期値 +15%以上 回転速度: 初期値 −15%以下 (The motor life is decided as follows Current: more than +15% of initial value Speed: less than −15% of initial value)
許容環境温度範囲 (Allowable Ambient Temperature)	-10°C~+70°C (Operating) -40°C~+70°C (Storage) ☆6 実用上さしつかえない状態で結露無きこと。 (No dew formation at operating and storage condition)
質量 (Mass)	80 g
保護方式 (Protection)	自動復帰方式 (Auto Restart) 逆接続防止 (Polarity Protection) ☆7
耐振動 (JIS C 60068-2-6 に準拠) (Vibration Test)	全振幅 (Peak-to-Peak value of a vibration) : 1.5mm 周波数 (Frequency) : 10~55Hz X, Y, Z 3方向各1時間 (1h in 3 Directions, "X, Y, Z" Each)
耐衝撃 (JIS C 60068-2-27 に準拠) (Shock Test)	加速度 (Acceleration of Gravity) : 1000m/s <sup>2</sup> 作用時間 (Time) : 6ms X, Y, Z 3方向各1回 (1 time in 3 Directions, "X, Y, Z" Each)
絶縁階級 (Insulation Class)	E種 (UL : Class A)
回転方向 (Rotation)	銘板側から見て時計方向 (CW Viewed From Name Plate Side)
風吹き出し方向 (Air Flow Direction)	銘板側 (Name Plate Side)
cULus File No.	E89936
VDE File No.	1507300
生産国 (Producing Country)	JAPAN, CHINA, CAMBODIA

\* NOTE

☆5 AC 500V、1分を保証(Guarantee AC 500V 1min)

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☆6 但し100時間保存の24時間常温放置にて実用上問題無きこと。

(To be free of defects on practical use after stored under −40°C ~+70°C for 100 hours and continuously stored under normal ambient temperature for 24 hours.)

☆7 使用電圧範囲内において(+)線および、(-)線を逆接続されても異常なきこと。 (Motor withstands reverse connection for positive and negative leads.)

## \*特記事項(Additional Notice)

- (1) 本仕様書に記載されていない項目で特に決める必要のある項目は事前に御連絡ください。 Any modification to these specifications requested by customer shall be negotiated between the manufacturer and the customer.
- (2) 当仕様書満足範囲において性能向上の為、部品等一部変更する場合が有ります。 The manufacturer reserves the right to change design, parts or manufacturing processes in order to improve the performance of the fan motor.
- (3) 保管はできるだけ6ヶ月以内とし、高温多湿の場所は避けてください。 Storage area should not be in high temperature, high humidity environment, and storage term shall be within 6 months as much as possible.
- (4) 定格電圧において72時間拘束されても焼損しません。 In case of locked rotor condition, the current shutdown feature of the fan motor protects the motor for 72 hours at the rated voltage.
- (5) 納入品単体の故障により誘発される損害はご容赦いただきます。
  We shall be free from compensation for any damage induced due to failure of fan motor.
- (6) 取り付けの際は、Fig.1のように片側フランジのみ御使用ください。 To be used one side flange only at fan mount as Fig.1.
- (7) PCB ASS'YICは、樹脂コーティングによる防湿処理を施しております。
  PCB ASS'Y has performed prevention of moisture processing by resin coating.
- (8) 本製品は、極めて高度の信頼性を要する用途(医療装置等、多大な人的・物的損害を及ぼす恐れのある用途)に対応する仕様にはなっておりません。 そのような場合には、予め弊社営業窓口までご相談下さい。

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All these products do not have specifications that can handle applications that require extremely high levels of reliability, such as medical equipment or other applications whose failure can be reasonably expected to result in serious physical and/or material damage.

Consult with your NMB/MinebeaMitsumi Inc. representative nearest you before using any NMB/MinebeaMitsumi Inc. products described or contained herein in such applications.



Fig. 1

Confidential
MinebeaMitsumi Inc.
'19.10.23
KZW ISSUED
Airmover

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										Ι.	_		材質 MATERIAL	作成日 DATE 2016/09/	05	
							N	IME	3	<b>A</b>		mm		品名 DESCRIPTION		
							MinebeaMitsumi Inc.			🍟	R度 SCALE 表面相 SURF. ROUGH			AUTO RESTART TYPE		
$\Box$		十								MinebeaMitsumi Inc.			寸法 公差		公差	
$\vdash$		十	T I				APPROVED	CHECKED	DRAWN	<u>—</u>	L≦4	±0.1	熱処理 HEAT TREAT	品番 PART No. (MODEL No.)	葉番 SHEET	
1	3	19	9/10/23	ECN97154 / A	MCD	KWI				松公		63 ±0.3		3110SB-04W-B79-EQ1	2/4	
符	号 個数	₩ T	日付	変更理由 /	担当	承認	KWI	YSHR	YSTM				表面处理 FINISH	図番 DRAWING No.	改訂 REV.	
ΔS			DATE		ENGINEER					TOL	250 <l≦ 角度DE</l≦ 	1000 ±0.8 G ±0.5		3110SB-04W-B79-EQ1	Α	

## ロック信号(LOCK SIGNAL)

- 1. 出力回路:オープンコレクタ (OUTPUT CIRCUIT: OPEN COLLECTOR)
- 2. 仕様(SPECIFICATION) 絶対最大定格 Ta=25℃

Absolute Maximum Ratings at Ta=25°C

V<sub>CE</sub> max : +15V

Ic max :  $5mA [V_{CF}(sat)max = 0.5V]$ 

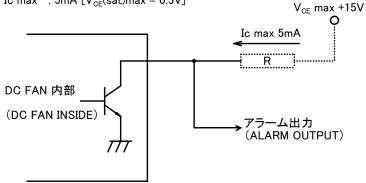
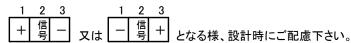
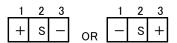


図1 アラーム信号回路 (ALARM SIGNAL CIRCUIT)

誤接続防止:信号出力線を誤接続しますと、FAN MOTOR内部駆動用IC内のトランジスタを破壊する事が有りますので、十分注意して下さい。 又、コネクター等を使用される場合は、3極のコネクターの場合、



WARNING: Improper connection of the sensor lead may cause damage to the motor driver IC. It is suggested that if a three-Poles connector is used the sensor lead always be placed in the center position. Please see below.

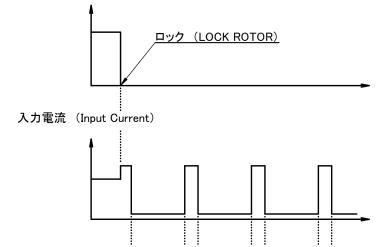


万一、誤接続により不都合が発生じた場合、当社では責任を負い兼ねます。 誤接続には十分ご注意下さい。

We shall be free from compensation, if it occurs trouble due to insertion of opposite direction.

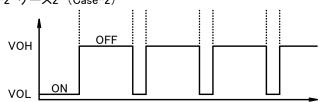
## 3. 出力波形 (OUTPUT WAVEFORM): 定格電圧時 (AT RATED VOLTAGE)

## 回転速度 (Speed)



出力信号電圧 (Output Signal Voltage)







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						MinebeaMitsumi Inc.		<i></i>		mm R度 SCALE		品名 DESCRIPTION		
								4	Ψ ¬		表面相さ SURF. ROUGH	AUTO RESTART TYPE		
								寸法 公差		公差		DC BRUSHLESS FAN		
						APPROVED	CHECKED	DRAWN	an.	L≦4		熱処理 HEAT TREAT	品番 PART No. (MODEL No.)	葉番 SHEET
									公差		63 ±0.3		3110SB-04W-B79-EQ1	3/4
符号	一個数	日付	変更理由 /	担当	承認	KWI	YSHR	YSTM				表面处理 FINISH	図番 DRAWING No.	改訂 REV.
ΔSY		DATE	REASON ECN No.	ENGINEER					TOL	250 <l≦1 角度DE</l≦1 	G ±0.5		3110SB-04W-B79-EQ1	Α

