PROPOSED SPECIFICATIONS FOR APPROVAL

CUSTOMER

Digi-Key Corporation

CUSTOMER P/N

PART NAME

DC FAN MOTOR

MODEL

3106KL-05W-B30-B00

DATE 2006/10/26

COVER

Page Pages

SPECIFICATIONS TOTAL

Pages

5

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

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.



- 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.

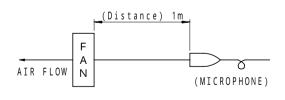
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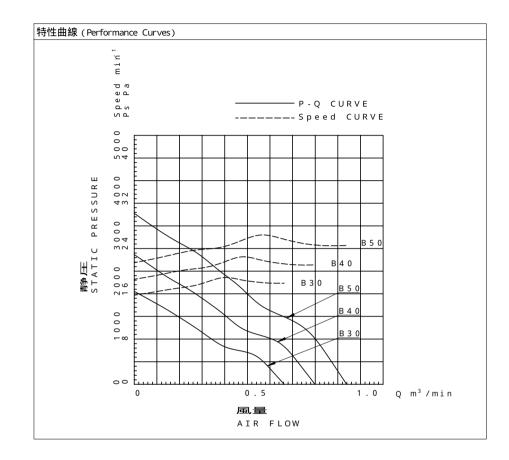
1 2 3 4 5 6 7

項目 (Items)		諸元 (Description)				
モーターの種類 (Motor Ty	/pe)	DC ブラシレスモーター (DC Brushless Motor)				
定格 (Rating)						
定格時間 (Duty)		連続 (Continuous)			
定格電圧 (Rating Voltage)	[V]		24			
対象型式 (Object Model)						
風量区分 (Air Flow Class)		B30	B40	B50		
使用電圧範囲 (Operating V	(oltage)[V]		10 ~ 27 £			
定格回転速度 3 4	標準値 (Average)	2200	2600	3000		
(Speed)[min ⁻¹]	最小値 (Minimum)	2000	2400	2800		
最大風量 1 4	標準値 (Average)	0 66	0 80	0 93		
(Max Air Flow)[m³/min]	最小値 (Minimum)	0 58	0 72	0 85		
最大静圧 2 4	標準値 (Average)	16 D	22 5	30 D		
(Max Static Pressure)[Pa]	最小値 (Minimum)	13 2	19 ۵	25 5		
定格電流 3 4	標準値 (Average)	0 Ω7	0 Ω9	0 .12		
(Current)[A]	最大値 (Maximum)	0 Ω9	0.12	0 .16		
定格入力 3 4	標準値 (Average)	1 68	2 .16	2 88		
(Input Power)[W]	最大値 (Maximum)	2 .16	2 88	3 84		
騒音 (Acoustical Noise)[dB] 3 4	26 Ω	۵ 0 ۵	34 D		

- * 測定条件 (Measuring Conditions)
 - 1.無響音室内で、かつ障害物のない大気中において測定する。 Measurement with in anechoic test chamber under free air condition.
 - 2.測定機は、モーターの吸込側より1mの距離に位置する。 Microphone is placed at a distance of 1m on the axis of air intake side.
 - Microphone is placed at a distance of 1m on the 3.暗騒音は 16 dB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





* 型式説明 (Description of Model Number)

3106KL-05W-BX0-B00

X:風量区分 (Air Flow Class) 3<4<5

* NOTE

- 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 において定格電圧印加時 (At Rating Voltage, At 25)



					NW	IB-M	AT		単位(JNIT	材質 MATERIAL	作成日 DATE 2002 / 0	3 / 18
								l€	" 			品名 DESCRIPTION	
						tsushita Motor ・松下モータ		7		SCALE .	表面粗サ SURF . ROUGH .	AUTO RESTART TY	
									寸法 L	公差		DC BRUSHLESS	FAN
					APPROVED	CHECKED	DRAWN	_ an	L 4	± 0.1	熱処理 HEAT TREAT	品番 PART NO.(MODEL NO.)	葉番 SHEET
Λ 1	05/06/07	ECN80662 / A	SUM	NKZW				公美	4 < L 16 16 < L 63	±02		3 1 0 6 K L - 0 5 W - B X 0 - B 0 0	1/3
符号	日付	変更事由 /	担当	承認	NKZW	SUM	HIG	-	63 < L 250	_	表面処理 FINISH	図番 DRAWING NO.	改訂 REV.
MARK	DATE	REASON ECN NO.	ENGINEER	APPROVED		56		TOL	250 < L 1000	±08		3106KL-05W-BX0-B00	В
									角度DEG	±05	\	J 5 1 0 0 1 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	

1 | 2 | 3 | 4 | 5 | 6 | 7

項目 (Items)	諸元 (Description)
規格 (Standard)	
絶縁抵抗 (Insulation Resistance)	DC 500Vメガーにて 10M 以上 (min 10M 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))	25 にて 70 000 時間 (70 p00h at 25) 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 ~ +60 (Operating) - 40 ~ +60 (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: g)	50
保護方式 (Protection)	自動復帰方法 (Auto Restart) 逆接続防止 (Polarity Protection) 7
耐振動 (JIS C 60068-2-6に準拠) (Vibration Test)	振幅 (Amplitude): 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/s² 作用時間 (Time): 6ms X // Z 3方向各 1 回 (1 time in 3 Directions, X // 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 (Air Out Over the Struts)
UL File No .	
CSA File No .	
VDE File No .	
生産国 (Producing Country)	JAPAN , CHINA

* NOTE

- 5 AC 500V、1分を保証 (Guarantee AC 500V 1 min)
- 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 100h of stored at -40 $\,$ ~ +60 and 24h to ambient humidity .)

7 使用電圧範囲内において赤線および、黒線を逆接続されても異常無きこと。 (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等の為、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 ヵ月以内とし、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 72h 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.

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Z.	ISSUED AN MOTO	

					NMB-MAT Minebea-Matsushita Motor Corporation ミネベア・松下モータ株式会社				
					APPROVED	CHECKED	DRAWN	80	
A²	06/10/26	E C N 8 3 1 2 5 / B	TAKE	KWI				船公差	
符号 MARK	日 付 DATE	変更事由 REASON ECN NO.	担当 ENGINEER	承認 APPROVED	NKZW	SUM	HIG	то	

	_		単位 U	INIT	材質 MATERIAL	作成日 DATE 2002 / 03	/ 18
	((1) [] (品名 DESCRIPTION	
tion è社)		尺度 S	CALE	表面粗サ SURF. ROUGH.	AUTO RESTART TY	
		寸法	L	公差			
٧N	_ [L 4	1	± 0.1	熱処理 HEAT TREAT	品番 PART NO.(MODEL NO.)	葉番 SHEET
	般公差	4 < L	16	±02		3106KL-05W-BX0-B00	2 /
	差	16 < L	63	±03		3100KE-03W-DX0-D00	/ 3
G l		63 < L	250	±05	表面処理 FINISH	図番 DRAWING NO.	改訂 REV.
-	TOL	250 < L	1000	±08		3106KL-05W-BX0-B00	
		角度DE	EG	±05		3100KL-03W-DX0-D00	В

