



## SPECIFICATION FOR APPROVAL

Customer : \_\_\_\_\_  
Description : \_\_\_\_\_ EST MOTOR (Energy Saving Technology Motor) \_\_\_\_\_  
Customer Part No. \_\_\_\_\_ REV. : \_\_\_\_\_  
Delta Model No. \_\_\_\_\_ MR83AUME-157S00 \_\_\_\_\_ REV. : \_\_\_\_\_ 00 \_\_\_\_\_  
Sample Issue No. \_\_\_\_\_  
Sample Issue Date : \_\_\_\_\_ Mar., 16, 2017 \_\_\_\_\_

PLEASE SEND ONE COPY OF THIS SPECIFICATION BACK AFTER YOU SIGNED APPROVAL FOR PRODUCTION PRE-ARRANGMENT.

APPROVED BY:

DATE :

DELTA ELECTRONICS, INC.  
TAOYUAN PLANT  
252, SHANG YING ROAD, KUEI SAN INDUSTRIAL ZONE  
TAOYUAN SHIEN, TAIWAN, R.O.C.  
TEL:886-(0)3-3591968  
FAX:886-(0)3-3591991

Delta Electronics, Inc.  
No.252, Shanying Rd., Guishan Dist.,  
Taoyuan City 333, Taiwan (R.O.C.)

TEL : 886-(0)3-3591968  
FAX : 886-(0)3-3591991

## STATEMENT OF DEVIATION

NONE

DESCRIPTION:

Delta Electronics, Inc.  
 No.252, Shanying Rd., Guishan Dist.,  
 Taoyuan City 333, Taiwan (R.O.C.)

TEL : 886-(0)3-3591968  
 FAX : 886-(0)3-3591991

## Specification for approval

Customer : \_\_\_\_\_

Description : EST MOTOR (Energy Saving Technology Motor)

Customer P/N : \_\_\_\_\_ rev. : \_\_\_\_\_

Delta model no. : MR83AUME-157S00 Delta Safety Model No.: MR83AUME-15

Sample revision. : \_\_\_\_\_ Issue no.: \_\_\_\_\_

Sample issue date : Mar., 16, 2017 Quantity : \_\_\_\_\_

### 1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE AC TO DC BRUSHLESS MOTOR.

### 2. CHARACTERS:

UNLESS SPECIFIED, ALL READINGS AND TESTS ARE BASED ON 25°C, 65% RH.

ITEM	DESCRIPTION
NOMINAL VOLTAGE	115 ~ 230 VAC (50 / 60Hz)
NOMINAL VOLTAGE RANGE	100 ~ 240 VAC (50/60Hz)
INPUT POWER (FREE AIR) MOTOR LOADING	16W TYP. Aluminum Impeller $\Phi$ 200mm, 34°, t=0.8mm
INPUT POWER (MAX, LOAD)	25W MAX.
OUTPUT POWER (MAX, LOAD)	15W MAX.
SPEED	1550 $\pm$ 10% R.P.M.
INSULATION TYPE	UL: CLASS B
SAFETY	CE, TUV, UL + cUL
	ATEX
INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 50/60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)

(continued)

---

PART NO:

---

DELTA MODEL: MR83AUME-157S00

---

ROTATION	CLOCKWISE DIRECTIONS FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN, WHEN ROTOR IS LOCKED.
LEAD WIRE	UL SVT 18AWG / 2C (105°C) -LF- BLUE WIRE (N) BROWN WIRE (L)

3. RECOMMENDED IMPELLER: (Aluminum impeller)

<b>IMPELLER DIAMETER</b>	<b>22°</b>	<b>28°</b>	<b>34°</b>
<b>Φ154mm</b>	V	V	V
<b>Φ172mm</b>	V	V	V
<b>Φ200mm</b>	V	V	V
<b>Φ230mm</b>			
<b>Φ254mm</b>			
<b>Φ300mm</b>			

---

PART NO:

---

DELTA MODEL: MR83AUME-157S00

---

4. MECHANICAL:

- 4-1. DIMENSIONS----- SEE DIMENSIONS DRAWING
- 4-2. FRAME (UPPER CASE)----- PLASTIC UL: 94V-0  
    FRAME (BOTTOM CASE)----- DIE CASTING: ADC12
- 4-3. BEARING SYSTEM----- TWO BALL BEARINGS
- 4-4. WEIGHT-----0.8 KILOGRAMS(REF.)
- \*4-5. INGRESS PROTECTION LEVEL ----- IP 66  
    ( \*IP TEST CONDITION IS BASED ON IEC 60529 )

5. ENVIRONMENTAL:

- 5-1. OPERATING TEMPERATURE----- -20 TO +60 DEGREE C
- 5-2. STORAGE TEMPERATURE----- -40 TO +85 DEGREE C
- 5-3. OPERATING HUMIDITY----- 5 TO 90 % RH
- 5-4. STORAGE HUMIDITY----- 5 TO 95 % RH

6. PROTECTION:

- 6-1. LOCKED ROTOR PROTECTION
  
- 6-2. OVER CURRENT PROTECTION
  
- 6-3. MOTOR OVER TEMP. PROTECTION

7. RE OZONE DEPLETING SUBSTANCES:

- 7-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

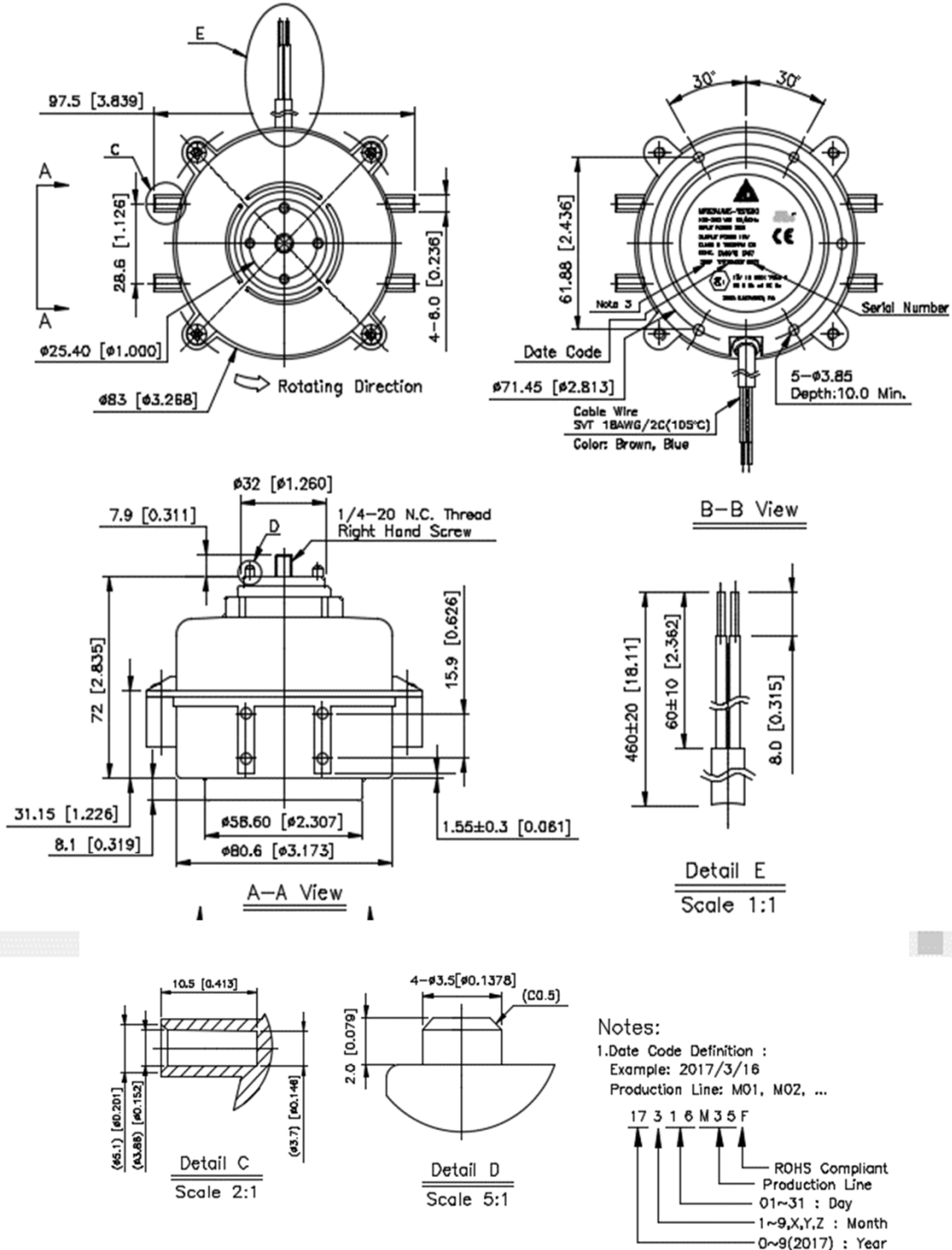
8. PRODUCTION LOCATION

- 8-1. PRODUCTS WILL BE PRODUCED IN CHINA.

PART NO:

DELTA MODEL: MR83AUME-157S00

9. DIMENSION DRAWING:



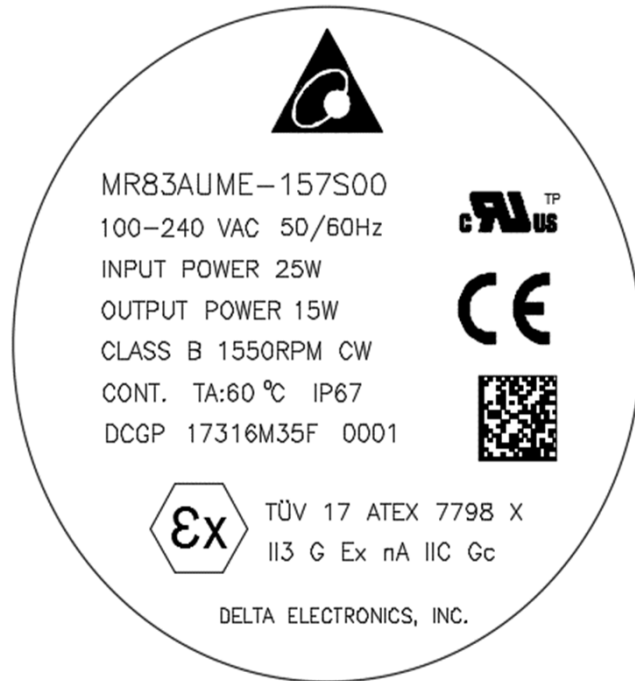
NOTES: 1. THIS PRODUCT IS RoHS COMPLIANT  
2. LEAD WIRE  
UL SVT 18AWG / 2C (105°C) -LF-  
PIN1: BLUE WIRE (N)

PART NO:

DELTA MODEL: MR83AUME-157S00

10. SAFETY LABEL:

LABEL 1: SAFETY MARK



LABEL 2: CE REQUEST ADDRESS LABEL (OPTIONAL BY SHIPPING REGION)

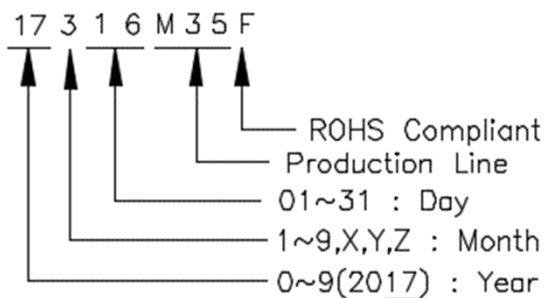
EU Contact Address :  
Delta Electronics (Netherlands) BV  
Zandsteen 15, 2132 MZ Hoofddorp, The Netherlands

Notes:

1.Date Code Definition :

Example: 2017/3/16

Production Line: M01, M02, ...





## ***Application Notice***

- 1. Delta will not guarantee the performance of the products if the application condition falls outside the parameters set forth in the specification.**
- 2. A written request should be submitted to Delta prior to approval if deviation from this specification is required.**
- 3. Please exercise caution when handling fans/motor. Damage may be caused when pressure is applied to the impeller, if the fans/motor are handled by the lead wires, or if the fan/motor was hard-dropped to the production floor.**
- 4. Except as pertains to some special designs, there is no guarantee that the products will be free from any such safety problems or failures as caused by the introduction of powder, droplets of water or encroachment of insect into the hub.**
- 5. The above-mentioned conditions are representative of some unique examples and viewed as the first point of reference prior to all other information.**
- 6. Delta fans/motor without special protection are not suitable where any corrosive fluids are introduced to their environment.**
- 7. Please ensure all fans/motor are stored according to the storage temperature limits specified. Do not store fans/motor in a high humidity environment. We highly recommend performance testing is conducted before shipping, if the fans/motor have been stored over 6 months.**
- 8. Not all fans/motor are provided with the Lock Rotor Protection feature. If you impair the rotation of the impeller for the fans/motor that do not have this function, the performance of those fans/motor will lead to failure.**
- 9. Please be cautious when mounting the fan/motor. Incorrect mounting of fans/motor may cause excess resonance, vibration and subsequent noise.**
- 10. It is important to consider safety when testing the fans/motor. A suitable fan guard fitted to the fan/motor to guard against any potential for personal injury.**
- 11. Except where specifically stated, all tests are carried out at room (ambient) temperature and relative humidity conditions of 25°C, 65% RH. The test value is only for fan/motor performance itself.**