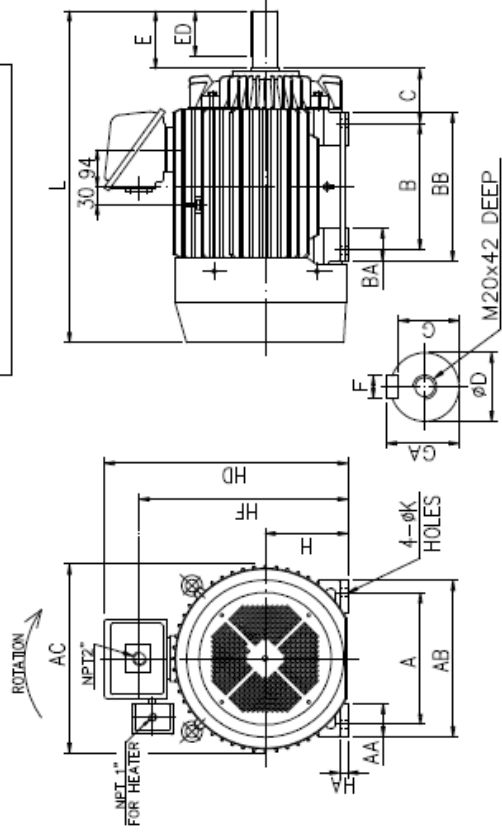


|  |  |  |                          |                       |      |                |       |           |
|--|--|--|--------------------------|-----------------------|------|----------------|-------|-----------|
| <b>OUTLINE<br/>3-PHASE<br/>INDUCTION MOTOR</b> |  | TOTALLY ENCLOSED FAN<br>COOLED, SQUIRREL CAGE<br>ROTOR (90 SERIES)<br>(INDOOR) |                          | FILE NO: A180130009E3 |      |                |       |           |
| OUTPUT   |  | POLE   | SYN.<br>SPEED<br>(r.p.m) | VOLT.                 | FREQ | TIME<br>RATING | MODEL | FRAME NO. |
| 42KW   |  | 4P   | 1500                     | 380V                  | 50Hz | S1             | FPFC  | 200LT     |

|                           |  |                                 |  |
|---------------------------|--|---------------------------------|--|
| CUSTOMER: T0J             |  | ORDER NO:                       |  |
| * WITH TERMINAL T-BLOCK   |  | * IE2                           |  |
| * COLOR:RAL 5021          |  | * IP44                          |  |
| * PAINT:ZINC PRIMER,80UM, |  | * 79 cBA(AT 1M NO LOAD)         |  |
| EPOXY INTERMEDIATE 150um, |  | * NDE INS BEARING               |  |
| PU FINISH 40um.           |  | * WITH SPACE HEATER:1ø 220V 40W |  |

| APPLICATION            |
|------------------------|
| JACKING OIL PUMP MOTOR |



|     |     |           |     |      |       |    |     |       |             |       |               |     |    |
|-----|-----|-----------|-----|------|-------|----|-----|-------|-------------|-------|---------------|-----|----|
| A   | B   | C         | H   | K    | L     | AA | AB  | AC    | AD          | AE    | BA            | BB  | HA |
| 318 | 305 | 133       | 200 | 18.5 | 802.5 | 80 | 378 | 442   | 365         | 305   | 80            | 360 | 25 |
| HD  | HF  | SHAFT END |     |      |       |    |     |       |             |       |               |     |    |
| 590 | 501 | D         | K   | E    | D     | F  | G   | GA    | BEARING NO. |       | APPROX WEIGHT |     |    |
|     |     | 60        | 140 | 110  | 18    | 53 | 64  | 6313  | D.E         | O.D.B | 350kg         |     |    |
|     |     |           |     |      |       |    |     | 6212/ | HC5C3       |       |               |     |    |

NOTE:1.TOLERANCE OF SHAFT END DIAMETER D: m6(+0.030,+0.011)  
 2.TOLERANCE OF SHAFT CENTER HEIGHT H: +0,-0.5  
 3. F CLASS INSULATION.



|          |           |             |                      |
|----------|-----------|-------------|----------------------|
| DESIGNED | T.S.CHANG | APR.19,2018 | DWG. NO: AS-071168   |
| CHECKED  | L.J.LEE   | APR.19,2018 | 3RD ANGLE PROJECTION |
| APPROVED | L.J.LEE   | APR.19,2018 | DIMENSION IN mm      |

TJB 5&6 Equipment No. (KKS No.) List  
 Note: "\*" shall be "5" for Unit5 or "6" for Unit6.

| Application    | Description   |
|----------------|---|
| JOP A          | *OMAV82AP010-M01<br>JACKING OIL PUMP A MOTOR                            |
| JOP A MAIN T/B | *OMAV82AP010-M01-X01<br>JACKING OIL PUMP A MOTOR MAIN TERMINAL BOX      |
| JOP A AUX. T/B | *OMAV82AP010-M01-X02<br>JACKING OIL PUMP A MOTOR AUXILIARY TERMINAL BOX |
| JOP B          | *OMAV83AP010-M01<br>JACKING OIL PUMP B MOTOR                            |
| JOP B MAIN T/B | *OMAV83AP010-M01-X01<br>JACKING OIL PUMP B MOTOR MAIN TERMINAL BOX      |
| JOP B AUX. T/B | *OMAV83AP010-M01-X02<br>JACKING OIL PUMP B MOTOR AUXILIARY TERMINAL BOX |

## Motor Data Sheet

| No.        | Description  | Unit              | Manufacturer's Design Data |
|------------|--|-------------------|----------------------------|
| 1.         | <b>Name of Motor</b>   | -                 | JACKING OIL PUMP A/B MOTOR |
| 2.         | <b>Manufacturer</b>  | -                 | TATUNG                     |
| 3.         | <b>Country of Origin</b>                                     | -                 | TAIWAN                     |
| 4.         | <b>Type/Machine Code</b>                                     | -                 | TEFC                       |
| 5.         | <b>Applied Standard (characteristics)</b>                    | -                 | IEC 60034                  |
| 6.         | <b>Ratings</b>   |                   |                            |
| 6. (1)     | Rated output   | kW                | 42                         |
| 6. (2)     | Service factor   | -                 | 1.0                        |
| 6. (3)     | Number of pole   | -                 | 4                          |
| 6. (4)     | Rated speed  | min <sup>-1</sup> | 1470                       |
| 6. (5)     | Rated voltage  | V                 | 380                        |
| 6. (6)     | Number of phases   | -                 | 3                          |
| 6. (7)     | Rated frequency  | Hz                | 50                         |
| 6. (8)     | Insulation class   | -                 | F                          |
| 6. (9)     | Temperature rise   | -                 | B                          |
| 6. (10)    | Rated duty   | -                 | S1                         |
| 7.         | <b>Service Conditions</b>                                    |                   |                            |
| 7. (1)     | Starting method  | -                 | Direct-On-Line             |
| 7. (2)     | Direction of rotation (viewed from DE (Drive End))           | -                 | CCW                        |
| 7. (3)     | Reverse rotation (Yes / No)                                  | -                 | YES                        |
| 7. (4)     | Location (Indoor / Outdoor)                                  | -                 | INDOOR                     |
| 7. (5)     | Enclosure IP rating  |                   |                            |
| 7. (5) (a) | Motor frame  | -                 | IP44                       |
| 7. (5) (b) | Terminal boxes   | -                 | IP44                       |
| 7. (6)     | Installation (Horizontal / Vertical)                         | -                 | HORIZONTAL                 |
| 7. (7)     | Design ambient temperature                                   | deg C             | 40                         |
| 7. (8)     | Explosion proof (Yes / No)                                   | -                 | NO                         |
| 7. (9)     | Noise level (at full-load condition, at 1m from motor frame) | dB(A)             | 82                         |
| 7. (10)    | Winding resistance   | Ω                 | 0.0736 (@20°C)             |
| 8.         | <b>Characteristics</b>                                       |                   |                            |
| 8. (1)     | Current  |                   |                            |
| 8. (1) (a) | Normal current   | A                 | 82.6                       |
| 8. (1) (b) | No-load current  | A                 | 28.9                       |
| 8. (1) (c) | Starting current   | A                 | 578                        |
| 8. (2)     | Torque   |                   |                            |
| 8. (2) (a) | Starting torque  | %                 | 200                        |
| 8. (2) (b) | Maximum torque   | %                 | 250                        |
| 8. (3)     | Slip at rated output   | %                 | 2.0                        |
| 8. (4)     | Efficiencies   |                   |                            |
| 8. (4) (a) | At 100% load   | %                 | 93.1                       |
| 8. (4) (b) | At 75% load  | %                 | 93.1                       |
| 8. (4) (c) | At 50% load  | %                 | 92.5                       |
| 8. (4) (d) | At 25% load  | %                 | 90.0                       |
| 8. (5)     | Power factor   |                   |                            |
| 8. (5) (a) | At rated load  | %                 | 83.0                       |
| 8. (5) (b) | At starting load   | %                 | 23.7                       |
| 8. (6)     | GD <sup>2</sup> coupled with driven equipment                | kg-m <sup>2</sup> | 1.922                      |
| 8. (7)     | Starting time with driven equipment                          | sec               | 1                          |

## Motor Data Sheet

| No.        | Description  | Unit              | Manufacturer's Design Data |
|------------|--|-------------------|----------------------------|
| 8. (8)     | Consecutive numbers of motor starting                                  |                   |                            |
| 8. (8) (a) | From cold condition (consecutive)                                      | -                 | 3                          |
| 8. (8) (b) | From hot condition (consecutive)                                       | -                 | 2                          |
| 8. (8) (c) | Minimum time between 2 starts (running state)                          | min               | -                          |
| 8. (8) (d) | Minimum time between 2 starts (stop state)                             | min               | -                          |
| 8. (9)     | Allowable locked-rotor time  |                   |                            |
| 8. (9) (a) | At cold condition  | sec               | 12                         |
| 8. (9) (b) | At hot condition   | sec               | 7                          |
| 9.         | <b>Constructions</b>   |                   |                            |
| 9. (1)     | Stator winding connection (Wye / Delta)                                | -                 | DELTA                      |
| 9. (2)     | Type of bearing  |                   |                            |
|            | Bearing of DE (Drive End)  | -                 | BALL                       |
|            | Bearing of NDE (Non Drive End)   | -                 | BALL                       |
| 9. (3)     | Lubricants   |                   |                            |
| 9. (3) (a) | Recommended lubricant and brand name                                   | -                 | SHELL GADUS S2 V100<br>3   |
| 9. (3) (b) | Pouring method (if applicable)   | -                 | GRAVITY                    |
| 9. (3) (c) | Quantity of lubricant for initial filling (if applicable)              | g                 | 100                        |
| 9. (3) (d) | Recommended interval for recharging (if applicable)                    | hr                | 3120                       |
| 9. (3) (e) | Recharging quantity (if applicable)                                    | g                 | 30                         |
| 9. (3) (f) | Location of pouring (indicated in the outline drawing) (if applicable) | -                 | TOP                        |
| 9. (4)     | Bearing cooling water requirement (if required)                        |                   | N/A                        |
| 9. (4) (a) | Quantity (if required)   | m <sup>3</sup> /h | -                          |
| 9. (4) (b) | Inlet water temperature (if required)                                  | deg C             | -                          |
| 9. (4) (c) | Required cooling water pressure (if required)                          | kPa               | -                          |
| 9. (4) (d) | Type of cooling water (if required)                                    | -                 | -                          |
| 9. (5)     | Water to air heat exchanger (if applicable)                            |                   | N/A                        |
| 9. (5) (a) | Quantity of cooling water (if applicable)                              | m <sup>3</sup> /h | -                          |
| 9. (5) (b) | Inlet water temperature (if applicable)                                | deg C             | -                          |
| 9. (5) (c) | Required cooling water pressure (if applicable)                        | kPa               | -                          |
| 9. (5) (d) | Type of cooling water (if applicable)                                  | -                 | -                          |
| 9. (6)     | Space heater (AC 220V 1 phase) (if applicable)                         | W                 | 40                         |
| 9. (7)     | Weight   | kg                | 350                        |
| 10.        | <b>Related Document Numbers</b>  |                   |                            |
| 10. (1)    | Motor outline drawing  | -                 | AS071168                   |
| 10. (2)    | Terminal box drawings  |                   | -                          |
| 10. (a)    | For main power   | -                 | N/A                        |
| 10. (b)    | For instruments  | -                 | N/A                        |
| 10. (c)    | For space heater   | -                 | N/A                        |
| 10. (3)    | Current transformers (for MV motors only)                              |                   | N/A                        |
| 10. (a)    | Characteristics curves (for MV motors only)                            | -                 | -                          |
| 10. (b)    | Outline drawing (for MV motors only)                                   | -                 | -                          |
| 10. (4)    | Efficiency curves  | -                 | N/A                        |
| 10. (5)    | Thermal capability curves  |                   | N/A                        |
| 10. (a)    | At cold condition  | -                 | -                          |
| 10. (b)    | At hot condition   | -                 | -                          |
| (6)        | Starting and speed torque characteristics at 80, 90 and 100 % voltage  | -                 | N/A                        |