

SECTION 13

Motor Information for SBS Storage Tank Mixer

00GNB87AM101



BOUSTEAD SALCON WATER SOLUTIONS PTE LTD

Motor Data sheets

| | | |
|---|-------------------|------------------------|
| 1. Name of motor | - | SBS STORAGE TANK MIXER |
| | | MOTOR |
| 2. Manufacturer | - | TECO |
| 3. Country of origin | - | MALAYSIA |
| 4. Type/machine code | - | AEUB |
| 5. Applied standard (characteristics) | - | IEC 60034-1 |
| 6. Ratings | | |
| (1) Rated output | kW | 0.75 |
| (2) Service factor | - | 1 |
| (3) Number of pole | - | 4 |
| (4) Rated speed | min ⁻¹ | 1500 |
| (5) Rated voltage | V | 380 |
| (6) Number of phases | - | 3 |
| (7) Rated frequency | Hz | 50 |
| (8) Insulation class | - | CLASS F |
| (9) Temperature rise | - | CLASS B/ 80°C |
| (10) Rated duty | - | S1 |
| 7. Service Conditions | | |
| (1) Starting method | - | DOL |
| (2) Direction of rotation (viewed from DE) | - | CW |
| (3) Reverse rotation (Yes / No) | - | NO |
| (4) Location (Indoor / Outdoor) | - | OUTDOOR |
| (5) Enclosure IP rating | | |
| (a) Motor frame | - | IP55 |
| (b) Terminal boxes | - | IP55 |
| (6) Installation (Horizontal / Vertical) | - | VERTICAL |
| (7) Design ambient temperature | °C | -14~40 |
| (8) Explosion proof (Required / Not required) | - | NO |
| (9) Noise level (at full-load condition) | dB (A) | 46 |
| 8. Characteristics | | |
| (1) Current | | |
| (a) Normal current | A | 1.98 |
| (b) No-load current | A | 1.4 |
| (c) Starting current | A | 12.8 |

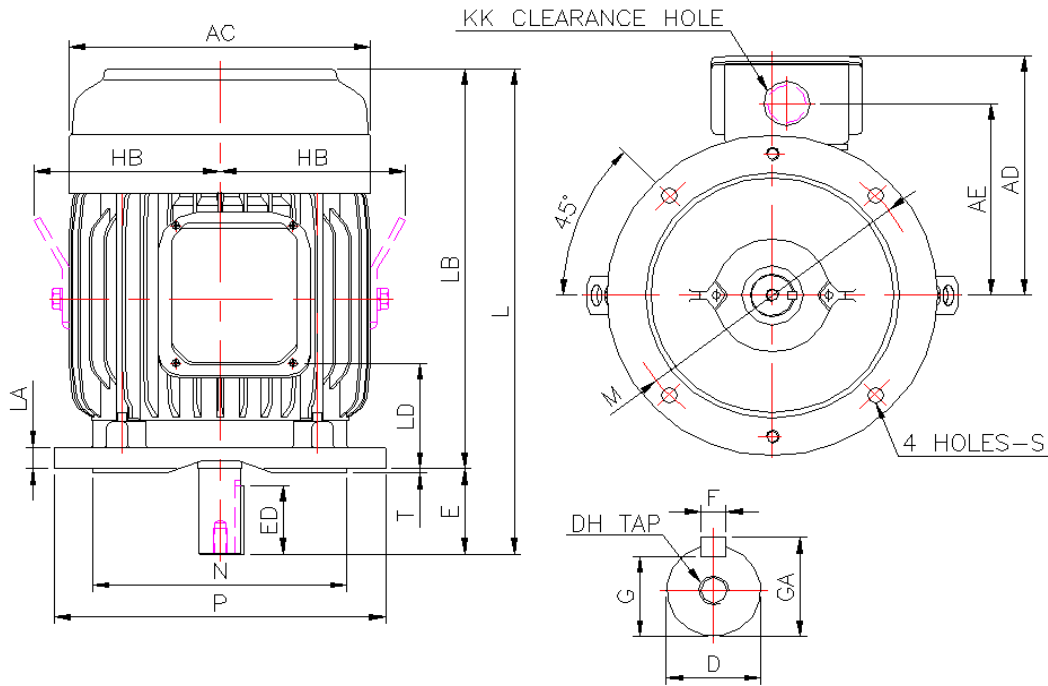
| | | |
|---|-------------------|----------------------------|
| (2) Torque | | |
| (a) Starting torque | % | 370 |
| (b) Maximum torque | % | 370 |
| (3) Slip at rated output | | |
| (4) Efficiencies | | |
| (a) At 100% load | % | 81.5 |
| (b) At 75% load | % | 81.0 |
| (c) At 50% load | % | 77.5 |
| (d) At 25% load | % | |
| (5) Power factor | | |
| (a) At rated load | % | 70.5 |
| (b) At starting load | % | 60 |
| (6) GD2 coupled with driven equipment | kg-m ² | 0.013 |
| (7) Starting time with driven equipment | s | 1 |
| (8) Consecutive number of starts | | |
| (a) From cold condition per hour | - | 3 |
| (b) From hot condition per hour | - | 2 |
| (c) Minimum time between 2 starts (running state) | min | |
| (d) Minimum time between 2 starts (stop state) | min | |
| (9) Allowable locked-rotor time | | |
| (a) At cold condition | s | |
| (b) At hot condition | s | |
| 9. Constructions | | |
| (1) Stator winding connection (Wye / Delta) | - | DELTA |
| (2) Type of bearing (DE / NDE) | - | 6204ZZ/6204ZZ |
| (3) Lubricants | | |
| (a) Recommended lubricant and brand name | - | LI-BASE GREASE MULTEMP SRL |
| (b) Pouring method | - | |
| (c) Quantity of lubricant for initial filling | - | |
| (d) Recommended interval for recharging | - | 20,000 OPERATING HOURS |
| (e) Recharging quantity | - | |
| (f) Location of pouring | - | |
| (indicated in the outline drawing) | | |
| (4) Bearing cooling water requirement (if required) | | NOT REQUIRED |
| (a) Quantity | m ³ /h | |
| (b) Inlet water temperature | °C | |
| (c) Required cooling water pressure | kPa | |
| (d) Type of cooling water | - | |

| | | |
|--|-------------------|----------------|
| (5) Water to air heat exchanger (if applied) | | NOT APPLIED |
| (a) Quantity of cooling water | m ³ /h | |
| (b) Inlet water temperature | °C | |
| (c) Required cooling water pressure | kPa | |
| (d) Type of cooling water | - | |
| (6) Space heater (AC 220V 1 phase) | W | NOT APPLICABLE |
| (7) Weight | kg | 18 |
| 10. Attached document numbers | | |
| (1) Motor outline drawing | - | SEE PAGE 82 |
| (2) Terminal box drawings | | |
| (a) For main power | - | |
| (b) For instruments | - | |
| (c) For space heater | - | |
| (3) Current transformers (for MV motors only) | | |
| (a) Characteristics curves | - | |
| (b) Outline drawing | - | |
| (4) Efficiency curves | - | |
| (5) Thermal capability curves | | |
| (a) At cold condition | - | |
| (b) At hot condition | - | |
| (6) Starting and speed torque characteristics at 80%, 90% and 100% voltage | - | |

| | | |
|-------------|---------------------------|-------------------------|
| TECO | OUTLINE DIMENSIONS | |
| | DATE 6/20/2017 | 3-PHASE INDUCTION MOTOR |

| MODEL | OUTPUT | POLE | TIME RATING | VOLTAGE | Hz | SYN. SPEED R.P.M. |
|-------|--------|------|-------------------|---------|----|-------------------|
| | HP | | | V | | |
| AEUB | 1 | 4 | Continuous Rating | 380 | 50 | 1500 |

TOTALLY ENCLOSED FAN-COOLED VERTICAL TYPE. SQUIRREL-CAGE ROTOR



DIMENSIONS IN MM

| FRAME NO. | AC | AD | AE | D | DH | E | ED | EE | F | G | |
|-----------|---------------|------------------|--------------------|------|-----------------------------|----|-----|-----|-----|------|----|
| 80 | 177 | 159 | 122 | 19j6 | M6×12 | 40 | 25 | --- | 6 | 15.5 | |
| GA | HB | KK | L | LA | LB | LD | LR | M | N | P | S |
| 21.5 | --- | 20 | 282 | 12 | 242 | 55 | --- | 165 | 130 | 200 | 12 |
| T | D. E. BEARING | N. D. E. BEARING | APPROX. WEIGHT KGS | | SOUND PRESSURE LEVEL dBA/1M | | | | | | |
| 3.5 | 6204ZZ | 6204ZZ | 18 | | 46 | | | | | | |

NOTE: 1. F Class Insulation, S.F.1.0
2. Direct Coupling, Belt Drive

10.1 MOTOR OUTLINE DRAWING

PRELIMINARY
DATE: 6/20/2017

| | | | | |
|-------|-----|-----------|--|---------|
| APPD. | tjm | 6/20/2017 | TECO Electric & Machinery Co., Ltd. | DWG NO. |
| CHKD. | tjm | 6/20/2017 | | |
| DWN. | tjm | 6/20/2017 | | |

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