08 PRIMARY SLUDGE PUMP MOTOR DATA SHEET

| 1. Name of motor | - | Primary sludge pump motor |
|---|---------|-----------------------------------|
| 2. Manufacturer | - | ABB |
| 3. Country of origin | - | CHINA |
| 4. Type/machine code | - | 3GBA 102 520-ASC M2BAX 100LB 4 |
| 5. Applied standard (characteristics) | - | IEC |
| 6. Ratings | | |
| (1) Rated output | kW | 3 |
| (2) Service factor | - | 1.0 |
| (3) Number of pole | - | 4 |
| (4) Rated speed | R.min-1 | 1436 |
| (5) Rated voltage | V | 380 |
| (6) Number of phases | - | 3 |
| (7) Rated frequency | Hz | 50 |
| (8) Insulation class | - | F |
| (9) Temperature rise | | В |
| (10) Rated duty | | S1 |
| 7. Service Conditions | - | |
| (1) Starting method | - | Directly |
| (2) Direction of rotation (viewed from DE) | - | CW or CCW |
| (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) | | Horizontal |
| (7) Design ambient temperature | °C | -20 ~ 40 |
| (8) Explosion proof (Required / Not required) | | Not required |
| (9) Noise level (at full-load condition) | dB (A) | 58 |
| 8. Characteristics | | |

| Originator | Identification number | Rev. | Date | Lang. | Sheet |
|------------|-----------------------|------|-----------|-------|--------|
| CHEC WATER | TJB56-GNA-E-DAS-0001 | В | 31/MAR/19 | En | 31/102 |

| (1) Current | | |
|---|-------|-------------------------|
| (a) Normal current | A | 6.6 |
| (b) No-load current | A | 3.5 |
| (c) Starting current | A | 47.52 |
| (2) Torque | | |
| (a) Starting torque | % | 3.4 |
| (b) Maximum torque | % | 3.8 |
| (3) Slip at rated output | | |
| (4) Efficiencies | | |
| (a) At 100% load | % | 85.5 |
| (b) At 75% load | % | 85.7 |
| (c) At 50% load50% | % | 84.6 |
| (d) At 25% load | % | |
| (5) Power factor | | |
| (a) At rated load | % | 81 |
| (b) At starting load | % | 54 |
| (6) GD2 coupled with driven equipment | kg-m² | 0.00939 |
| (7) Starting time with driven equipment | s | |
| (8) Allowable number of starts | - | |
| (a) From cold condition per hour | - | |
| (b) From hot condition per hour | - | |
| (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 | 27 |
| (b) At hot condition | S | 15 |
| 9. Constructions | | |
| (1) Stator winding connection (Wye / Delta) | - | |
| (2) Type of bearing (DE / NDE) | - | 6206-2Z/C3 - 6205-2Z/C3 |
| (3) Lubricants | | |

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| CHEC WATER | TJB56-GNA-E-DAS-0001 | В | 31/MAR/19 | En | 32/102 |

| NA |
|----|
| NA |
| |
| |
| |
| |
| NA |
| 35 |
| |
| NA |
| |

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|------------|-----------------------|------|-----------|-------|--------|
| CHEC WATER | TJB56-GNA-E-DAS-0001 | В | 31/MAR/19 | En | 33/102 |

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| (5) Thermal capability curves | | NA |
|--|---|----|
| (a) At cold condition | - | NA |
| (b) At hot condition | - | NA |
| (6) Starting and speed torque characteristics at 80%, 90% and 100% voltage | - | NA |

