

**MOTOR SPECIFICATION SHEET**

MODEL : SCLF-QR 3HP 4P

USED FOR : STANDARD

| DESCRIPTION                      | DETAIL  |      |      |  |  |
|----------------------------------|---|------|------|--|--|
| PHASE                            | 1   |      |      |  |  |
| TYPE                             | CAPACITOR START AND RUN                             |      |      |  |  |
| MODEL NAME                       | SCLF-QR   |      |      |  |  |
| RATED OUTPUT, HP (kW)            | 3 (2.2)   |      |      |  |  |
| POLE                             | 4   |      |      |  |  |
| CODE                             | MEATH CODE : 1M001D-400220QREU0                     |      |      |  |  |
| OUTLINE DRAWING NO.              | ONM14O084-*   |      |      |  |  |
| RATED VOLTAGE (V)                | 220   | 230  | 220  |  |  |
| RATED FREQUENCY (Hz)             | 50  | 50   | 60   |  |  |
| RATED CURRENT (A)                | 15.1  | 15.4 | 13.4 |  |  |
| RATED SPEED (min <sup>-1</sup> ) | 1450  | 1460 | 1740 |  |  |
| RATED EFFICIENCY (%)             | 82.3  | 82.2 | 85.4 |  |  |
| THERMAL CLASS                    | 155(F)  |      |      |  |  |
| RATING                           | S1 (CONTINUOUS)                                     |      |      |  |  |
| ENCLOSURE CONSTRUCTION           | TOTALLY ENCLOSED FAN COOLED                         |      |      |  |  |
| DEGREES OF PROTECTION            | IP55  |      |      |  |  |
| METHOD OF COOLING                | IC411   |      |      |  |  |
| FRAME NO.                        | 112M  |      |      |  |  |
| WEIGHT (kg)                      | 34.4  |      |      |  |  |
| STANDARD                         | JEC-2137-2000                                       |      |      |  |  |
| EFFICIENCY RULE                  | IEC 60034-30-1                                      |      |      |  |  |
| INSTALLATION                     | FOOT MOUNTED  |      |      |  |  |
| ROTATION                         | CCW (VIEWED FROM SHAFT END)                         |      |      |  |  |
| BEARING                          | LOAD SIDE : 6207ZZ                                  |      |      |  |  |
|                                  | OPPOSITE SIDE : 6206ZZ                              |      |      |  |  |
| BEARING GREASE                   | UREA GREASE   |      |      |  |  |
| NOISE (db.A)                     | 67  |      |      |  |  |
| VIBRATION                        | V20   |      |      |  |  |
| CIRCUMSTANCE<br>CONDITION        | AMBIENT TEMPERATURE : -20 ~ +40°C                   |      |      |  |  |
|                                  | AMBIENT HUMIDITY : 95%RH OR LESS                    |      |      |  |  |
|                                  | ABOVE SEA LEVEL : 1000m OR LESS                     |      |      |  |  |
|                                  | ENVIRONMENT : NO BURSTING/EROSIVE GAS OR VAPOR      |      |      |  |  |
| COLOR                            | MUNSELL N1.5 (BLACK)                                |      |      |  |  |
| TERMINAL BOX                     | NO. OF LEAD WIRES : 4                               |      |      |  |  |
|                                  | SOURCE CONNECTION : LEAD WIRES                      |      |      |  |  |
| INSULATION RESISTANCE            | BY DC 500V MEGGER - ≥100MΩ                          |      |      |  |  |
| DIELECTRIC TEST                  | AC 50Hz 1500V - 1min. (Based on rated voltage 220V) |      |      |  |  |
| SHAFT SWING                      | ≤0.03mm   |      |      |  |  |
| MATERIAL                         | FRAME : STEEL PLATE                                 |      |      |  |  |
|                                  | BRACKET : ALUMINIUM                                 |      |      |  |  |
|                                  | SHAFT : CARBON STEEL                                |      |      |  |  |
|                                  | STATOR CORE : ELECTRICAL STEEL                      |      |      |  |  |
|                                  | WIRE : ENAMELLED COPPER MAGNET WIRE                 |      |      |  |  |
|                                  | INSULATOR : POLYESTER FILM SATURATED WITH RESIN     |      |      |  |  |
|                                  | VARNISH : EPOXY DENATURALIZATION POLYESTER          |      |      |  |  |
|                                  | ROTOR CORE : ELECTRICAL STEEL                       |      |      |  |  |
|                                  | CONDUCTOR : ALUMINIUM                               |      |      |  |  |
|                                  | TERMINAL BOX : STEEL PLATE                          |      |      |  |  |
|                                  | PAINTING : POLYURETHANE RESIN                       |      |      |  |  |
| PRODUCTION COUNTRY               | THAILAND  |      |      |  |  |

Specifications subject to change without notice.

**SPECIFICATION SHEET NO.**

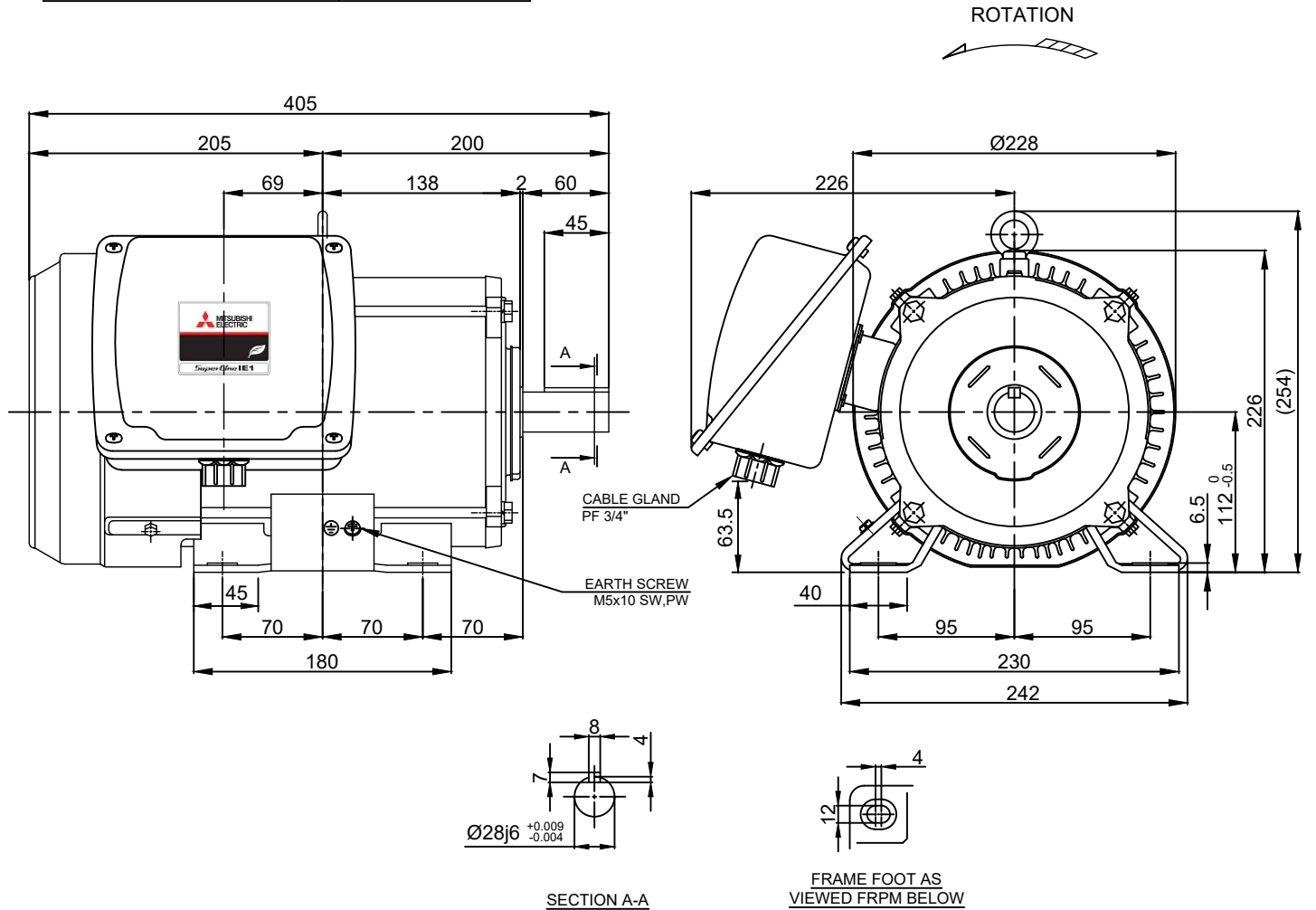
SS-M-1220-B

# MODEL SCLF-QR SINGLE PHASE INDUCTION MOTOR OUTLINE DRAWING

CAPACITOR START AND CAPACITOR RUN TYPE  
 TOTALLY ENCLOSED FAN COOLED  
 DEGREES OF PROTECTION IP55  
 DUST & WATER JET PROOF  
 MOTOR EFFICIENCY CLASS IE1

CUSTOMER \_\_\_\_\_  
 USER \_\_\_\_\_  
 FOR \_\_\_\_\_  
 CUSTOMER'S \_\_\_\_\_  
 ORDER NO. \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
 MFG. \_\_\_\_\_  
 ORDER NO. \_\_\_\_\_

|                    |                 |
|--------------------|-----------------|
| STARTING CAPACITOR | 180 µF 330 VAC  |
| RUNNING CAPACITOR  | 22.5 µF 520 VAC |



| FRAME SIZE | RATING     | TH. CLASS | AMB. TEMP. | BEARINGS  |           | COLOR                | DIRECTION OF ROTATION | NO. OF LEAD WIRES |
|------------|------------|-----------|------------|-----------|-----------|----------------------|-----------------------|-------------------|
|            |            |           |            | LOAD SIDE | OPP. SIDE |                      |                       |                   |
| 112M       | S1 (CONT.) | 155(F)    | 40°C       | 6207ZZ    | 6206ZZ    | BLACK (MUNSELL N1.5) | CCW                   | 4                 |

| OUTPUT |     | POLE | Hz | VOLT    | AMP       | RPM       | IE CODE - RATED EFF.    | REMARK |
|--------|-----|------|----|---------|-----------|-----------|-------------------------|--------|
| HP     | kw  |      |    |         |           |           |                         |        |
| 3      | 2.2 | 4    | 50 | 220/230 | 15.1/15.4 | 1450/1460 | IE1- 82.3% / IE1- 82.2% |        |
|        |     |      | 60 | 220     | 13.4      | 1740      | IE1- 85.4%              |        |

MITSUBISHI ELECTRIC AUTOMATION (THAILAND) CO.,LTD.

|           |                  |                     |      |
|-----------|------------------|---------------------|------|
|           |                  | OUTLINE DRAWING NO. | REV. |
|           | DIMENSION IN mm. |                     |      |
| ONM140084 |                  |                     |      |