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| APPLICABLE STANDARD  |   |                          |  |                              |                |
|--|---|--------------------------|--|------------------------------|----------------|
| RATING   | OPERATING TEMPERATURE RANGE   | -35°C TO 85°C (NOTE 1)   | STORAGE TEMPERATURE RANGE  | -10°C TO 60°C                |                |
|  | VOLTAGE   | 30V AC                   | APPLICABLE CONNECTOR   | DF40*~*DP-0. 4V (NOTE 2)     |                |
|  | CURRENT   | 0. 3A                    |  |                              |                |
| SPECIFICATIONS   |   |                          |  |                              |                |
| ITEM   | TEST METHOD   |                          | REQUIREMENTS   | QT                           | AT             |
| CONSTRUCTION   |   |                          |  |                              |                |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   |                          | ACCORDING TO DRAWING.  | X                            | X              |
| MARKING  | CONFIRMED VISUALLY.   |                          |  | X                            | X              |
| ELECTRIC CHARACTERISTICS                                       |   |                          |  |                              |                |
| CONTACT RESISTANCE   | 20mV AC OR LESS 1kHz, 1mA .   |                          | 90mΩ MAX.  | X                            | —              |
| INSULATION RESISTANCE  | 100V DC.  |                          | 50MΩ MIN.  | X                            | —              |
| VOLTAGE PROOF  | 100V AC FOR 1 min.  |                          | NO FLASHOVER OR BREAKDOWN.   | X                            | —              |
| MECHANICAL CHARACTERISTICS                                     |   |                          |  |                              |                |
| MECHANICAL OPERATION   | 30TIMES INSERTIONS AND EXTRACTATIONS.   |                          | ① CONTACT RESISTANCE: 90mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                            | —              |
| VIBRATION  | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 10CYCLES, FOR 3 DIRECTIONS. |                          | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                | X                            | —              |
| SHOCK  | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                       |                          | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                | X                            | —              |
| ENVIRONMENTAL CHARACTERISTICS                                  |   |                          |  |                              |                |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35 °C<br>TIME 30→ 5 MAX → 30→ 5 MAX min<br>UNDER 5 CYCLES.    |                          | ① CONTACT RESISTANCE: 90mΩ MAX.<br>② INSULATION RESISTANCE: 50MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                            | —              |
| DAMP HEAT (STEADY STATE)                                       | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.   |                          | ① CONTACT RESISTANCE: 90mΩ MAX.<br>② INSULATION RESISTANCE: 25MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                            | —              |
| SULPHUR DIOXIDE  | EXPOSED IN 25 PPM FOR 96h, 25°C, 75%.   |                          | ① CONTACT RESISTANCE: 180mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                      | X                            | —              |
|  |   |                          |  |                              |                |
|  | COUNT   | DESCRIPTION OF REVISIONS | DESIGNED   | CHECKED                      | DATE           |
|  |   |                          |  |                              |                |
| REMARKS  |   |                          | APPROVED   | KH. IKEDA                    | 08. 04. 18     |
| NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT              |   |                          | CHECKED  | TS. MIYAZAKI                 | 08. 04. 18     |
| NOTE 2: DF40H* REMAIN INOPERATIVE                              |   |                          | DESIGNED   | TK. SUZUKI                   | 08. 04. 17     |
| Unless otherwise specified, refer to JIS C 5402.               |   |                          | DRAWN  | TK. SUZUKI                   | 08. 04. 17     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |   |                          | DRAWING NO.  |                              | ELG4-315166-02 |
|  | SPECIFICATION SHEET   |                          | PART NO.   | DF40C (2. 0) ~*DS-0. 4V (51) |                |
|  | HIROSE ELECTRIC CO., LTD.   |                          | CODE NO.   | CL684                        | 1/1            |