

| 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      | DF40C-*DP-0.4V |
|  | CURRENT   | 0.3A   |                           |                |
| <b>SPECIFICATIONS</b>  |   |  |                           |                |
| ITEM   | TEST METHOD   | REQUIREMENTS   | QT                        | AT             |
| <b>CONSTRUCTION</b>  |   |  |                           |                |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   | ACCORDING TO DRAWING.  | X                         | X              |
| MARKING  | CONFIRMED VISUALLY.   |  | X                         | X              |
| <b>ELECTRIC CHARACTERISTICS</b>                                |   |  |                           |                |
| 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                         | —              |
| <b>MECHANICAL CHARACTERISTICS</b>                              |   |  |                           |                |
| MECHANICAL OPERATION   | 30TIMES INSERTIONS AND EXTRactions.   | 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                         | —              |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |   |  |                           |                |
| 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                 | 07.12.21       |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |   | CHECKED  | AR. TAKAHASHI             | 07.12.21       |
|  |   | DESIGNED   | TK. SUZUKI                | 07.12.21       |
| Unless otherwise specified, refer to JIS C 5402.               |   | DRAWN  | TK. SUZUKI                | 07.12.21       |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |   | DRAWING NO.  | ELC4-316871-01            |                |
| <b>HRS</b>   | SPECIFICATION SHEET   | PART NO.   | DF40B-*DS-0.4V (51)       |                |
|  | HIROSE ELECTRIC CO., LTD.   | CODE NO.   | CL684                     | △ 1/1          |