

| APPLICABLE STANDARD   |                             |   |   |                                |            |
|---|-----------------------------|---|---|--------------------------------|------------|
| RATING  | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C <sup>(1)</sup>  | STORAGE TEMPERATURE RANGE   | -10 °C TO 60 °C <sup>(2)</sup> |            |
|   | VOLTAGE                     | 200 V AC  | OPERATING HUMIDITY RANGE  | 40 % TO 80 %                   |            |
|   | CURRENT                     | 1 A   | STORAGE HUMIDITY RANGE  | 40 % TO 70 % <sup>(2)</sup>    |            |
| 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  |                             | 100 mA (DC or 1000 Hz).   | 15 mΩ MAX.  | x                              | —          |
| INSULATION RESISTANCE   |                             | 500 V DC.   | 1000 MΩ MIN.  | x                              | —          |
| VOLTAGE PROOF   |                             | 650 V AC FOR 1 min.   | NO FLASHOVER OR BREAKDOWN.  | x                              | —          |
| MECHANICAL CHARACTERISTICS  |                             |   |   |                                |            |
| MECHANICAL OPERATION  |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.   | ① CONTACT RESISTANCE: 15 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                | x                              | —          |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.5 mm,<br>AT 2 h FOR 3 DIRECTION.  | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.          | x                              | —          |
| SHOCK   |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.  |   | x                              | —          |
| ENVIRONMENTAL CHARACTERISTICS   |                             |   |   |                                |            |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.  | ① CONTACT RESISTANCE: 15 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.                     | x                              | —          |
| RAPID CHANGE OF TEMPERATURE   |                             | TEMPERATURE-65→+15~+35→+125→+15~+35°C<br>TIME 30 → 10~15 → 30 → 10~15 min<br>UNDER 5 CYCLES.                            | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x                              | —          |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   | ① CONTACT RESISTANCE: 15 mΩ MAX.<br>② NO HEAVY CORROSION.                                     | x                              | —          |
| HYDROGEN SULPHIDE   |                             | EXPOSED IN 3 PPM FOR 120 h.   |   | x                              | —          |
| RESISTANCE TO SOLDERING HEAT  |                             | 1) SOLDER BATH: SOLDER TEMPERATURE, 260±5°C FOR IMMERSION, DURATION, 10±1 s.<br>2) SOLDERING IRONS : 360°C FOR 5 s MAX. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                               | x                              | —          |
| SOLDERABILITY   |                             | SOLDERED AT SOLDER TEMPERATURE, 245±3°C, FOR IMMERSION DURATION, 2 s.   | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED. | x                              | —          |
|   |                             |   |   |                                |            |
|   | COUNT                       | DESCRIPTION OF REVISIONS  | DESIGNED  | CHECKED                        | DATE       |
| △   |                             |   |   |                                |            |
| REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br><sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |                             |   | APPROVED  | HS. OKAWA                      | 06. 12. 13 |
|   |                             |   | CHECKED   | HS. OZAWA                      | 06. 12. 13 |
|   |                             |   | DESIGNED  | KY. NAKAMURA                   | 06. 12. 13 |
|   |                             |   | DRAWN   | AK. SUZUKAWA                   | 06. 12. 13 |
| Unless otherwise specified, refer to MIL-STD-202.   |                             |   |   |                                |            |
| Note QT: Qualification Test AT: Assurance Test X: Applicable Test   |                             |   | DRAWING NO.   | ELC4-016859-21                 |            |
| HRS   | SPECIFICATION SHEET         |   | PART NO.  | HIF3F-34PA-2. 54DSA (71)       |            |
|   | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.  | CL615-0066-7-71                | △ 1/1      |