




**THE DATASHEET OF  
GRM31C5C1E154JE02L**



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| 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   | RELATIVE HUMIDITY 85% MAX<br>(NOT DEWED) |   |     |
|   | CURRENT  | 1 A                            |  | STORAGE HUMIDITY RANGE   |  |   |     |
| SPECIFICATIONS  |  |                                |  |  |  |   |     |
| 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  | 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  | -   |     |
| <b>MECHANICAL CHARACTERISTICS</b>   |  |                                |  |  |  |   |     |
| 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  | -   |     |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>  |  |                                |  |  |  |   |     |
| 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 -55→+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±1s.<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 IMMersed. | x  | -   |     |
|   |  |                                |  |  |  |   |     |
|   | COUNT  | DESCRIPTION OF REVISIONS       |  | DESIGNED   | CHECKED                                  | DATE  |     |
|    | 1  | DIS-F-00009794                 |  | YS. NARA   | HT. YAMAGUCHI                            | 20210616  |     |
| 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   | HT. YAMAGUCHI                            | 20181210  |     |
|   |  |                                |  | CHECKED  | HT. YAMAGUCHI                            | 20181210  |     |
|   |  |                                |  | DESIGNED   | HR. NAGAYASU                             | 20181207  |     |
| Unless otherwise specified, refer to MIL-STD-202.   |  |                                |  | DRAWN  | TS. HORI                                 | 20181207  |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |  |                                |  | DRAWING NO.  |  | ELC-386219-00-00  |     |
|    | SPECIFICATION SHEET  |                                |  | PART NO.   | HIF3B*-PA-2. 54DSA (63)                  |   |     |
|   | HIROSE ELECTRIC CO., LTD.  |                                |  | CODE NO.   |  |  | 1/1 |

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