

|  |                             |   |              |  |                         |          |
|--|-----------------------------|---|--------------|--|-------------------------|----------|
| APPLICABLE STANDARD  |                             |   |              |  |                         |          |
| RATING   | OPERATING TEMPERATURE RANGE | -45°C TO +125°C (NOTES 1)   |              | STORAGE TEMPERATURE RANGE  | -10°C TO + 60°C (NOTE2) |          |
|  | VOLTAGE                     | 150V AC   |              | APPLICABLE CONNECTOR   | DF9#-*P-1V (22)         |          |
|  | CURRENT                     | 0.5A  |              |  | DF9#-*P-1V (32)         |          |
| 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   |                             | 100m A (DC OR 1000 Hz).   |              | 50mΩ MAX.  | X -                     |          |
| INSULATION RESISTANCE  |                             | 100V DC.  |              | 500MΩ MIN.   | X -                     |          |
| VOLTAGE PROOF  |                             | 250V AC FOR 1 min.  |              | NO FLASHOVER OR BREAKDOWN.   | X -                     |          |
| MECHANICAL CHARACTERISTICS   |                             |   |              |  |                         |          |
| MECHANICAL OPERATION   |                             | 30TIMES INSERTIONS AND EXTRACTIONS.   |              | ① CONTACT RESISTANCE: 50mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.   | X -                     |          |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.  |              | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<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 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                   | X -                     |          |
| ENVIRONMENTAL CHARACTERISTICS  |                             |   |              |  |                         |          |
| RAPID CHANGE OF TEMPERATURE  |                             | TEMPERATURE -65→ 5 TO 35→125→ 5 TO 35°C<br>TIME 30→10 TO 15→ 30→10 TO 15min<br>UNDER 5 CYCLES.  |              | ① CONTACT RESISTANCE: 50mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ 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: 50mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X -                     |          |
| HEAT RESISTANCE OF SOLDERING   |                             | [RECOMMENDED TEMPERATURE PROFILE]<br>《SOLDERING AREA》<br>MAX250°C, 220°C FOR 60 SECONDS MAX.<br>《PREHEATING AREA》<br>150 TO 180°C 90~120 SECONDS.<br>MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.<br>[RECOMMENDED MANUAL SOLDELING CONDITION ]<br>SOLDERING IRON TEMPERATURE 380°C<br>SOLDERING TIME : WITHIN 3 SECONDS. |              | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | X -                     |          |
| SOLDERABILITY  |                             | SOLDERING TEMPARATURE:245±5°C<br>DURATION OF IMMERSION :<br>SOLDERING FOR 3SECONDS  |              | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.                            | X -                     |          |
| △  |                             |   |              |  |                         |          |
| REMARKS  |                             |   |              |  |                         |          |
| NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.                                   |                             |   |              |  |                         |          |
| NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.                   |                             |   |              |  |                         |          |
| APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY. |                             |   |              |  |                         |          |
| UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .                                 |                             |   |              |  |                         |          |
|  | COUNT                       | DESCRIPTION OF REVISIONS  | DESIGNED     | CHECKED  | DATE                    |          |
| △  | 1                           | DIS-H-001204  | AR.TAKAHASHI | TS.MIYAZAKI  | 06.08.02                |          |
|  |                             |   |              | APPROVED   | TY.OMA                  | 04.03.31 |
|  |                             |   |              | CHECKED  | TS.MIYAZAKI             | 04.03.31 |
|  |                             |   |              | DESIGNED   | HK.UMEHARA              | 04.03.31 |
|  |                             |   |              | DRAWN  | M.NAKAMOTO              | 04.03.31 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                     |                             |   | DRAWING NO.  | ELC4-162419-11   |                         |          |
| SPECIFICATION SHEET  |                             |   | PART NO.     | DF9-*S-1V (32)   |                         |          |
| HIROSE ELECTRIC CO., LTD.  |                             |   | CODE NO.     | CL540  | △ 1/1                   |          |