

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
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|----------------------------|-----------------------------|-------------------------|--|----------------------------------|--|------------------|--|
| <b>APPLICABLE STANDARD</b> |                             |                         |  | <b>STORAGE TEMPERATURE RANGE</b> |  | -10 °C TO +60 °C |  |
| <b>RATING</b>              | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1) |  |                                  |  |                  |  |
|                            | VOLTAGE                     | 250 V AC                |  |                                  |  |                  |  |
|                            | CURRENT                     | 3 A                     |  |                                  |  |                  |  |

  

| 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).  | 30 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                 | 30 TIMES INSERTIONS AND EXTRACTIONS.   |  |       |
|                                      |  | ① CONTACT RESISTANCE: 30 mΩ 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 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.                            |  |       |
|                                      |  | ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  | X —   |
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |  |       |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.  |  |       |
|                                      |  | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X —   |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35°C<br>TIME 30 → 10 TO 15 → 30 → 10 TO 15min UNDER 5 CYCLES. |  |       |
|                                      |  | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X —   |

  

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|--|--------------------|--------------------|--------------------|---------------|----------|
| REMARKS  | DRAWN              | DESIGNED           | CHECKED            | APPROVED      | RELEASED |
| NOTE: INCLUDING THE TEMPERATURE RISE BY CURRENT. | <i>A. Sempayra</i> | <i>A. Sempayra</i> | <i>A. Sempayra</i> | <i>T. Owa</i> |          |
| Unless otherwise specified, refer to JIS C 5402  | 04.03.08           | 04.03.08           | 04.03.08           | 04.03.09      |          |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

|               |                           |                     |          |                 |
|---------------|---------------------------|---------------------|----------|-----------------|
| <b>HRS</b>    | HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. | DF3 — * EP — 2A |
| CODE NO.(OLD) | DRAWING NO.               | ELC4-306189-01      | PART NO. | CL543-          |
| CL            |                           |                     |          | 1/1             |

