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

| APPLICABLE STANDARD  |  |   |                           |                      |          |
|--|--|---|---------------------------|----------------------|----------|
| RATING   | OPERATING TEMPERATURE RANGE  | - °C TO - °C                                | STORAGE TEMPERATURE RANGE | - °C TO - °C         |          |
|  | VOLTAGE  | -   | OPERATING HUMIDITY RANGE  | - % TO - %           |          |
|  | CURRENT  | -   | APPLICABLE CABLE          | -                    |          |
| SPECIFICATIONS   |  |   |                           |                      |          |
| ITEM   | TEST METHOD  | REQUIREMENTS                                | QT                        | AT                   |          |
| CONSTRUCTION   |  |   |                           |                      |          |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.  | ACCORDING TO DRAWING.                       | X                         | X                    |          |
| MECHANICAL CHARACTERISTICS                                     |  |   |                           |                      |          |
| VIBRATION  | FREQUENCY 10 TO 55 Hz<br>SINGLE AMPLITUDE 0.75 mm,<br>AT 2h, FOR 3 DIRECTIONS.             | NO DAMAGE, CRACK AND LOOSENESS<br>OF PARTS. | X                         | -                    |          |
| SHOCK  | 490 m/s <sup>2</sup> DIRECTION OF PULSE 11 ms<br>AT 3 TIMES FOR 6 DIRECTIONS.              |   | X                         | -                    |          |
| ENVIRONMENTAL CHARACTERISTICS                                  |  |   |                           |                      |          |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE -55 → 5~35 → 85 → 5~35 °C.<br>TIME 30 → 2~3 → 30 → 2~3 min.<br>UNDER 5 CYCLES. | NO DAMAGE, CRACK AND LOOSENESS<br>OF PARTS. | X                         | -                    |          |
| CORROSION SALT MIST  | EXPOSED IN 5 % SALT WATER SPRAY FOR<br>48 h.   | NO HEAVY CORROSION.                         | X                         | -                    |          |
|  |  |   |                           |                      |          |
|  | COUNT  | DESCRIPTION OF REVISIONS                    | DESIGNED                  | CHECKED              | DATE     |
|  | 0  |   |                           |                      |          |
| REMARK   |  |   | APPROVED                  | HO.MIWA              | 06.07.18 |
|  |  |   | CHECKED                   | YH.ENAMI             | 06.07.18 |
|  |  |   | DESIGNED                  | TU.TANIGUCHI         | 06.07.18 |
| Unless otherwise specified, refer to JIS C 5402.               |  |   | DRAWN                     | MT.ITANO             | 06.07.15 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |  |   | DRAWING NO.               | ELC4-045587-01       |          |
| <b>HRS</b>   | SPECIFICATION SHEET  |   | PART NO.                  | HDA-CTF1 (4-40) (50) |          |
|  | HIROSE ELECTRIC CO., LTD.  |   | CODE NO.                  | CL211-5128-1-50      | △ 1/1    |