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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  | -55°C TO + 105°C (NOTE 1) |   | Storage Temperature range | -10°C TO + 60°C (NOTE 3)  |
|   | Operating Humidity range   | 20% TO 80% (NOTE 2)       |   | Storage Humidity range    | 40% TO 70% (NOTE 3)   |
|   | Current  | AWG8                      | 42A/pin                                 | Applicable Crimp socket   | DF60FS(R)-3S-10.16C(##)   |
|   |  | AWG10                     | 34A/pin                                 |                           |   |
|   | AWG12  | 28A/pin                   |   |                           |   |
| 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   |
| MECHANICAL CHARACTERISTICS  |  |                           |   |                           |   |
| Vibration   | Frequency 10 to 500 HZ, single amplitude 0.75 mm, at 10 cycles, for 3 directions.  |                           | 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.  |                           | No damage, crack or looseness of parts. | X                         | -   |
| ENVIRONMENTAL CHARACTERISTICS   |  |                           |   |                           |   |
| Damp heat (steady state)  | Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.  |                           | No damage, crack or looseness of parts. | X                         | -   |
| Rapid change of temperature   | Temperature -55°C→ +105°C<br>Time 30min→ 30min<br>Under 25 cycles.<br>(the transferring time of the tank is 2-3 min)<br>(after leaving the room temperature for 1-2h.) |                           | No damage, crack or looseness of parts. | X                         | -   |
| Dry heat  | Exposed at 105 ± 2°C, 250h<br>(after leaving the room temperature for 1-2h.)   |                           | No damage, crack or looseness of parts. | X                         | -   |
| Cold  | Exposed at -55±3°C, 96h  |                           | No damage, crack, or looseness of parts | X                         | -   |
| Remarks<br>Note 1:Include the temperature rising by current.<br>Note 2:No condensing.<br>Note 3:Apply to the unused and packaged product. |  |                           |   |                           |   |
|    | COUNT  | DESCRIPTION OF REVISIONS  | DESIGNED                                | CHECKED                   | DATE  |
| Unless otherwise specified , refer to IEC 60512.  |  |                           | APPROVED                                | SJ. OKAMURA               | 20231019  |
|   |  |                           | CHECKED                                 | TT. OHSAKO                | 20231019  |
|   |  |                           | DESIGNED                                | KT. NUMATA                | 20231018  |
|   |  |                           | DRAWN                                   | SK. CHIBA                 | 20231018  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |  |                           | DRAWING NO.                             |                           | ELC-402682-00-00  |
|    | SPECIFICATION SHEET  |                           | PART NO.                                | DF60FS-3S-10.16C-CV       |   |
|   | HIROSE ELECTRIC CO., LTD.  |                           | CODE NO.                                | CL0680-4016-0-00          |  1/1 |