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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 Contact | DF60S-8SC(F)A(##) |
| | | AWG10 | 34A/pin | Applicable covercase | DF60S-1012SC(F)A(##) |
| AWG12 | | 28A/pin | Voltage | DF60FS-3S-10.16C-CV 1000V AC/DC | |

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

| | | | | |
|-----------------------|---------------------|----------------------------|---|---|
| Insulation resistance | 1000V DC. | 1000MΩ min. | X | — |
| Voltage proof | 3000V AC for 1 min. | No flashover or breakdown. | X | — |

MECHANICAL CHARACTERISTICS

| | | | | |
|--------------------------|---|--|---|---|
| Mechanical operation | 30 times insertion and extraction. | No damage, crack, or looseness of parts. | X | — |
| 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 ² duration of pulse 11 ms at 3 times for 3 directions. | No damage, crack or looseness of parts. | X | — |
| Contact extraction force | Pull out the cable after housing fixation. | 49N min. | X | — |

ENVIRONMENTAL CHARACTERISTICS

| | | | | |
|-----------------------------|--|--|---|---|
| Damp heat (steady state) | Exposed at 40 ± 2 °C, 90 to 95 %, 96 h. | 1) Insulation resistance: 1000MΩ min. 2) No damage, crack or looseness of parts | X | — |
| Rapid change of temperature | Temperature -55°C → +105°C Time 30min → 30min Under 25 cycles. (the transferring time of the tank is 2—3 min) (after leaving the room temperature for 1—2h.) | | X | — |
| Dry heat | Exposed at 105 ± 2°C, 250h (after leaving the room temperature for 1—2h.) | | X | — |
| Cold | Exposed at -55±3°C, 96h | | X | — |

Remarks
 Note 1:Include the temperature rising by current.
 Note 2:No condensing.
 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-402681-00-00

| | | | | | |
|------------|---------------------------|----------|------------------|---|-----|
| HRS | SPECIFICATION SHEET | PART NO. | DF60FS-3S-10.16C | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL0680-4015-0-00 | △ | 1/1 |