

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|------|------|----------|-------|--------------------------|----|------|------|
| 1 | RE-H-03367 | M.K. | C.H. | 99.11.05 | | | | | |

| | | | | |
|----------------------------|-----------------------------|-------------------------|---------------------------|------------------------------------|
| APPLICABLE STANDARD | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1) | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C |
| | VOLTAGE | 100 V AC | APPLICABLE CONTACT | DF20B-2830SCFA |
| | CURRENT | AWG28:1 A | APPLICABLE CONNECTOR | DF20*-*DP-1* |
| | | AWG30:0.5A | APPLICABLE CABLE | 28-30AWG JACKET DIAMETER 0.6MAX |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

| | | | | |
|---------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|
| CONSTRUCTION | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | <input type="radio"/> | <input type="radio"/> |
| MARKING | CONFIRMED VISUALLY. | | <input type="radio"/> | <input type="radio"/> |

| | | | | |
|---|-------------------------------|----------------------------|---|---|
| ELECTRICAL CHARACTERISTICS | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | mΩ MAX. | - | - |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX. mA(DC OR 1000 Hz). | | - | - |
| INSULATION RESISTANCE | - V DC. | MIN. | - | - |
| VOLTAGE PROOF | - V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | - | - |

| | | | | |
|---|---|--|-----------------------|---|
| MECHANICAL CHARACTERISTICS | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | BY STEEL GAUGE. | INSERTION FORCE : N MAX. EXTRACTION FORCE : N MIN. | - | - |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE N MAX. EXTRACTION FORCE N MIN. | - | - |
| MECHANICAL OPERATION | TIMES INSERTION AND EXTRACTION. | ① CONTACT RESISTANCE: mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | - | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs | <input type="radio"/> | - |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | ② CONTACT RESISTANCE: - mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | <input type="radio"/> | - |

| | | | | |
|--------------------------------------|---|---|-----------------------|---|
| ENVIRONMENTAL CHARACTERISTICS | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 5~35 → +85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | <input type="radio"/> | - |
| DAMP HEAT(STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 ~95 %, 96 h. | | <input type="radio"/> | - |
| CORROSION, SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h | ① CONTACT RESISTANCE: - mΩ MAX. ② NO HEAVY CORROSION. | <input type="radio"/> | - |
| HYDROGEN SULPHIDE | EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38) | ① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION. | - | - |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) | ① CONTACT RESISTANCE: - mΩ MAX. ② NO HEAVY CORROSION. | <input type="radio"/> | - |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, °C, FOR IMMERSION DURATION, s. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | - | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | - | - |

| | | | | | |
|--|-----------|-----------|------------|------------|----------|
| REMARKS NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | H.UMEHARA | H.UMEHARA | M.NAKAMURA | K.KATAYOSE | |
| | 98.11.13 | 98.11.13 | 98.11.16 | 98.11.16 | |

Unless otherwise specified, refer to MIL-STD-1344.

Note QT:Qualification Test AT:Assurance Test Applicable Test

| | | |
|--------------------------------------|-----------------------------------|---------------------------------|
| HRS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. DF20A-*DS-1C |
| CODE NO. (OLD) CL | DRAWING NO. ELC4-162771 | PART NO. CL686 |

TO