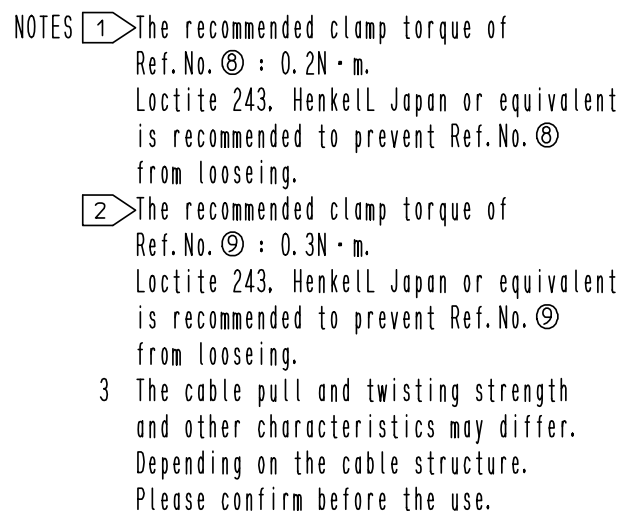


| APPLICABLE STANDARD | | | | | |
|--|-----------------------------|---|-------------|---|------------------|
| RATING | OPERATING TEMPERATURE RANGE | -25 °C TO +85 °C | | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C |
| | VOLTAGE | AC 350 V , DC 500 V | | | |
| | CURRENT | 7 A | | APPLICABLE CABLE | φ8.5 |
| 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 | | | | | |
| CONTACT RESISTANCE | | CONTACT SHALL BE MEASURED AT DC 1 A | | 5 mΩ MAX. | X X |
| INSULATION RESISTANCE | | 500 V DC. | | 1000 MΩ MIN. | X X |
| VOLTAGE PROOF | | 1000 V AC. FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X X |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND WITHDRAWAL FORCES | | φ 2.970 ⁰ _{-0.003} BY STEEL GAUGE. | | INSERTION AND WITHDRAWAL FORCES : 1.5 N MIN | X — |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 40 N MAX. | X — |
| MECHANICAL OPERATION | | 1000 TIMES INSERTIONS AND EXTRACTIONS. | | CONTACT RESISTANCE: 5 mΩ MAX. | X — |
| VIBRATION | | FREQUENCY : 10 → 55 → 10 (Hz) , SINGLE AMPLITUDE 0.75 mm, AT 2h, FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| SHOCK | | IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40 °C, 90 TO 95 %, 96 h. | | ① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55→ R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. | | ① INSULATION RESISTANCE: 1000 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | NO HEAVY CORROSION RUIN THE FUNCTION. | X — |
| DRY HEAT | | EXPOSED AT + 85 °C , 96 h. | | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| COLD | | EXPOSED AT - 55 °C , 96 h. | | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| RESISTANCE TO SOLDERING HEAT | | SOLDERED AT SOLDERING IRON BIT TEMPERATURE +380±10°C FOR 3 ⁺¹ ₀ s. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X — |
| SOLDERABILITY | | SOLDERED AT SOLDERING IRON BIT TEMPERATURE +350±10°C FOR 2 TO 3 s. | | WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER. | X — |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 1 | DIS-C-00000966 | HY. KISHI | HY. KOBAYASHI | 16.05.14 |
| REMARK | | | | APPROVED | 15.10.28 |
| NOTE (1) R/T : ROOM TEMPERATURE. | | | | CHECKED | 15.10.28 |
| Unless otherwise specified, refer to JIS C 5402. (IEC60512) | | | | DESIGNED | 15.10.28 |
| | | | | DRAWN | 15.10.28 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-119230-00-00 |
| | SPECIFICATION SHEET | | PART NO. | HS16PA-3 | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL101-0604-0-00 | 1/1 |

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