

|                     |                             |                                  |                           |                  |
|---------------------|-----------------------------|----------------------------------|---------------------------|------------------|
| APPLICABLE STANDARD |                             | VDE 0627, TUV approved(R9351324) |                           |                  |
| RATING              | OPERATING TEMPERATURE RANGE | -40 °C TO +125 °C                | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C |
|                     | VOLTAGE                     | AC 200 V , DC 200 V              |                           |                  |
|                     | CURRENT                     | 13 A <sup>(1)</sup>              | APPLICABLE CABLE          |                  |

### 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. (MIL-C-2316)                                                 | 5 mΩ MAX.                            | X | X |
|                       | BETWEEN D-CONTACT TO SHELL SHALL BE MEASURED AT DC 1A.                                            | 100 mΩ MAX.                          | X | X |
| INSULATION RESISTANCE | 500 V DC. (MIL-STD-1344 3003)                                                                     | 5000 MΩ MIN.                         | X | X |
| TEMPERATURE RISE      | TEMPERATURE CONSTANCY SHALL BE WITHIN 8 HOURS WHEN APPLYING CURRENT OF 13 A. (DIN VDE 0627 6, 27) | TEMPERATURE RISE SHALL BE 1 K/h MAX. | X | - |
| VOLTAGE PROOF         | 2250 V AC. FOR 1 min. (MIL-STD-1344 3001)                                                         | NO FLASHOVER OR BREAKDOWN.           | X | X |

#### MECHANICAL CHARACTERISTICS

|                                           |                                                                                                                                       |                                                                                                                  |   |   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---|---|
| CONTACT INSERTION AND WITHDRAWAL FORCES   | φ 1.562 <sup>+0.003</sup> / <sub>0</sub> BY STEEL GAUGE.                                                                              | INSERTION AND WITHDRAWAL FORCES : 0.56 N MIN.                                                                    | X | - |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR.                                                                                                     | INSERTION AND WITHDRAWAL FORCES<br>LOCKING DEVICE WITH UNLOCK : 39 N MAX.<br>LOCKING DEVICE WITH LOOK : — N MAX. | X | - |
| CONTACT RETENTION FORCE                   | APPLY 20 N PULL FORCE FROM TERMINATION SIDE. (DIN41640)                                                                               | NO CONTACT DISPLACEMENT.                                                                                         | X | - |
| IMPACT INTENSITY                          | DROP FROM THE HEIGHT OF 750 mm FOR 8 TIMES WITH CABLE AND CABLE CLAMP. (DIN 41640)                                                    | NO DEFACE OR MECHANICAL DAMAGE.                                                                                  | X | - |
| MECHANICAL OPERATION                      | 500 TIMES INSERTIONS AND EXTRACTATIONS.<br>(MIL-C-5015 4, 6, 12, 2)                                                                   | CONTACT RESISTANCE: 7.5 mΩ MAX.                                                                                  | X | - |
|                                           |                                                                                                                                       | D-CONTACT-SHELL RESISTANCE: 100 mΩ MAX.                                                                          | X | - |
| VIBRATION                                 | FREQUENCY: 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s <sup>2</sup> AT 3 h, FOR 3 DIRECTIONS.<br>(MIL-STD-1344 2005, CONDITION II) | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                            | X | - |
| SHOCK                                     | 490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 2004, CONDITION E)                           | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                            | X | - |

#### ENVIRONMENTAL CHARACTERISTICS

|                             |                                                                                                                                        |                                                                                                                                                                                  |   |   |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| DAMP HEAT (STEADY STATE)    | EXPOSED AT 71°C, 95%, 336h. (MIL-C-5015 4, 6, 10)                                                                                      | ① INSULATION RESISTANCE: 50 MΩ MIN. (AT HIGH HUMIDITY).<br>② INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY).<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.<br>④ NO HEAVY CORROSION. | X | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → R/T <sup>(2)</sup> → +125 → R/T °C<br>TIME 30 → 10 TO 15 → 30 → 10 TO 15 min<br>UNDER 5 CYCLES. (MIL-C-5015 4, 6, 4) | ① INSULATION RESISTANCE: 5000 MΩ MIN.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                                                              | X | - |

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|-------|--------------------------|----------|---------|------|
| 0     |                          |          |         |      |

|                                                                                                                                                                                                                                             |          |               |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|----------|
| REMARK<br>NOTES(1) 13A RATED CURRENT IS THE MAXIMUM CURRENT PER CONTACT.<br>BUT THE CURRENT CAPACITY OF WHOLE IS CONNECTOR 26 A MAX.<br>(2) R/T : ROOM TEMPERATURE<br>(3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR. | APPROVED | HY. KOBAYASHI | 18.06.11 |
|                                                                                                                                                                                                                                             | CHECKED  | HY. KOBAYASHI | 18.06.11 |
|                                                                                                                                                                                                                                             | DESIGNED | HY. KISHI     | 18.06.11 |
|                                                                                                                                                                                                                                             | DRAWN    | HY. KISHI     | 18.06.11 |



Unless otherwise specified, refer to IEC 60512 (JIS C 5402).

|                                                                |             |                  |
|----------------------------------------------------------------|-------------|------------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC-110224-73-00 |
|----------------------------------------------------------------|-------------|------------------|

|            |                           |          |                           |  |     |
|------------|---------------------------|----------|---------------------------|--|-----|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | H/MS3106A10SL-3S-C-T (73) |  |     |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL120-0326-0-73           |  | 1/2 |

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| SPECIFICATIONS                                                                      |                                                                                         |                                                                 |                  |                           |                                                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------|---------------------------|-------------------------------------------------------------------------------------------|
| ITEM                                                                                | TEST METHOD                                                                             | REQUIREMENTS                                                    | QT               | AT                        |                                                                                           |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                                                |                                                                                         |                                                                 |                  |                           |                                                                                           |
| SEALING <sup>(3)</sup>                                                              | EXPOSED AT A DEPTH OF 1 m FOR 0.5 h. (JIS B 6015)                                       | NO WATER PENETRATION INSIDE CONNECTOR.                          | X                | —                         |                                                                                           |
| AIRTIGHTNESS <sup>(3)</sup>                                                         | APPLY AIR PRESSURE 40 kPa FOR 30 SEC TO INSIDE CONNECTOR.                               | NO AIR BUBBLES FROM CONNECTOR INTERFACE.                        | X                | —                         |                                                                                           |
| CORROSION, SULPHUR DIOXIDE                                                          | EXPOSED IN SO <sub>2</sub> : 670ppm 40 °C FOR 8 h. AND 18 TO 28 °C FOR 16 h. (DIN50018) | NO HEAVY CORROSION RUIN THE FUNCTION.                           | X                | —                         |                                                                                           |
| OIL RESISTING <sup>(3)</sup>                                                        | DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5L / h. (JIS B 6015)                     | NO OIL SEEPAGE INSIDE CONNECTOR.                                | X                | —                         |                                                                                           |
| RESISTANCE TO DUST <sup>(3)</sup>                                                   | REFER TO IEC 529, 7, 6.                                                                 | NO DUST SEEPAGE INSIDE CONNECTOR.                               | X                | —                         |                                                                                           |
| RESISTANCE TO SOLDERING HEAT.                                                       | SOLDERED TEMPERATURE, +380±10°C, FOR SOLDERING DURATION, 10±1 s.                        | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X                | —                         |                                                                                           |
| SOLDERABILITY                                                                       | SOLDERED AT SOLDER TEMPERATURE, +350°C±10°C FOR SOLDERING DURATION, 10±1 s.             | WETTING ON SOLDER SURFACE.<br>NO SOLDER CLUSTER.                | X                | —                         |                                                                                           |
|                                                                                     |                                                                                         |                                                                 |                  |                           |                                                                                           |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |                                                                                         | DRAWING NO.                                                     | ELC-110224-73-00 |                           |                                                                                           |
|  | SPECIFICATION SHEET                                                                     |                                                                 | PART NO.         | H/MS3106A10SL-3S-C-T (73) |                                                                                           |
|                                                                                     | HIROSE ELECTRIC CO., LTD.                                                               |                                                                 | CODE NO.         | CL120-0326-0-73           |  2/2 |