

| APPLICABLE STANDARD |                             |                     |                           |                  |
|---------------------|-----------------------------|---------------------|---------------------------|------------------|
| Rating              | Operating temperature range | -25 °C to +85 °C    | Storage temperature range | -10 °C to +60 °C |
|                     | Voltage                     | AC 500 V , DC 700 V | _____                     | _____            |
|                     | Current                     | 10 A                | 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 | 2 mΩ MAX.                  | X | X |
| Insulation resistance | 500 V DC.                           | 1000 MΩ MIN.               | X | X |
| Voltage proof         | 1500 V AC for 1 min.                | No flashover or breakdown. | X | X |

#### MECHANICAL CHARACTERISTICS

|   |  |  |   |   |
|---|--|--|---|---|
| Contact insertion and withdrawal forces   | _____ by steel gauge.  | Insertion and withdrawal forces : - N MIN.   | - | - |
| Connector insertion and withdrawal forces | Measured by applicable connector.<br>Locking device with unlook.                                 | Insertion and withdrawal forces : 40 N MAX.  | X | - |
| Mechanical operation                      | 2000 times insertions and extractions.   | Contact resistance: 4 mΩ MAX.  | X | - |
| Vibration                                 | Frequency: 10 → 55 → 10 [Hz], single amplitude 0.75 mm, at 10 cyc, 49 minutes, for 3 directions. | ① No electrical discontinuity of 10 μs.<br>② No damage, crack and looseness, of parts. | X | - |
| Shock                                     | 490 m/s <sup>2</sup> directions of pulse 11 ms at 3 times for 6 directions.                      | 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 40 °C, 90 to 95 %, 96 h.   | ① Insulation resistance: 100 MΩ MIN (at dry).<br>② No damage, crack and looseness of parts. | X | - |
| Rapid change of temperature  | Temperature -55 → R/T <sup>(1)</sup> → +85 → R/T °C<br>Time 30 → 10 to 15 → 30 → 10 to 15 min under 5 cycles. | ① Insulation resistance: 100 MΩ MIN.<br>② No damage, crack and looseness of parts.          | X | - |
| Corrosion salt mist          | Exposed in 5 % salt water spray for 48 h.   | No heavy corrosin 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 | Solder temperature, +380±10°C , for immersion duration, 3 <sub>0</sub> <sup>+1</sup> s.                       | No deformation of case of excessive looseness of the terminals.                             | X | - |
| Solderability                | Soldered at solder temperature, +350+10°C for immersion duration, 2 to 3 s.                                   | Wetting on solder surface.<br>No solder cluster.  | X | - |
| Sealing <sup>(2)</sup>       | Exposed at a depth of 1.8 m for 48 h.   | No water penetration inside connector.  | X | - |
| Airtightness <sup>(2)</sup>  | Apply air pressure 17.6 kPa for 0.5 min to inside connector.  | No air bubbles from connector interface.  | X | - |

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

|  |          |               |            |
|--|----------|---------------|------------|
| <b>REMARK</b><br>NOTES (1)R/T : Room Temperature<br>(2) Sealing and airtightness shall be tested under mated condition with an applicable connector.<br>Unless otherwise specified, refer to IEC60512(JIS C 5402). | APPROVED | YH. YAMADA    | 16. 04. 05 |
|  | CHECKED  | HY. KOBAYASHI | 16. 04. 05 |
|  | DESIGNED | HR. SATO      | 16. 04. 05 |
|  | DRAWN    | HR. SATO      | 16. 04. 05 |

|  |             |                  |
|--|-------------|------------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC-111095-72-00 |
|--|-------------|------------------|

|            |                           |          |                   |     |
|------------|---------------------------|----------|-------------------|-----|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | RM15WTRZB-4P (72) |     |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL109-1673-2-72   | 1/1 |

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 In case that the application demands a high level of reliability, such as automotive, please contact a company representative for further information.