

Applicable STANDARD				
Rating	Operating temperature range	-25 °C TO +85 °C	Storage temperature range	-10 °C TO +60 °C
	Voltage	AC 350 V , DC 490 V	_____	_____
	Current	5 A	Applicable cable	_____

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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#### 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	4 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	_____ by steel gauge.	Insertion and withdrawal forces : - N MIN.	X	-
Connector insertion and withdrawal forces	Measured by applicable connector. Locking device with unlock.	Insertion and withdrawal forces: 70 N MAX.	X	-
Mechanical operation	2000 times insertions and extractions.	Contact resistance: 8 mΩ MAX.	X	-
Vibration	Frequency: 10 TO 55 Hz, single amplitude 0.75 mm, at 10 cyc, 49 min, for 3 directions.	①No electrical discontinuity of 10 μs. ②No 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. ② No damage, crack and looseness, of parts.	X	-

#### ENVIRONMENTAL CHARACTERISTICS

Rapid change of temperature	Temperature -55 → R/T <sup>(1)</sup> → +85 → R/T °C Time 30 → 10 TO 15 → 30 → 10 TO 15 min. Under 5 cycles.	① Insulation resistance: 100 MΩ MIN. ② No damage. Crack and looseness of parts.	X	-
Damp heat (Steady state)	Exposed at 40 °C, 90 to 95 %, 96 h.	① Insulation resistance: 100 MΩ MIN. (At dry). ② No damage. Crack and looseness of parts.	X	-
Corrosion salt mist	Exposed in 5 % salt water spray for 48 h.	No heavy corrosion ruins 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 <sup>+1</sup> <sub>0</sub> sec.	No deformation of case of excessive looseness of the terminals.	X	-
Solder ability	Soldered at solder temperature, +350±10°C for immersion duration, 2- 3 sec.	Wetting on solder surface. 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 inside connector.	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0				

<b>REMARK</b> (1) R/T : Room temperature (2) Sealing and airtightness shall be tested under mated condition with an applicable connector.	APPROVED	HY.KOBAYASHI	16.04.11
	CHECKED	HY.KOBAYASHI	16.04.11
	DESIGNED	HK.NAMAI	16.04.11
	DRAWN	HK.NAMAI	16.04.11

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

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-111160-72-00
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	RM15WTPZA-12P (72)		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL109-1738-6-72		1/1