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
ELECTRICAL CHARACTERISTICS				
Contact resistance	Contact 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 breakdown.	X	X
MECHANICAL CHARACTERISTICS				
Contact mating and unmating forces	Measured with ——— steel pin gage.	Mating and unmating forces: — N MIN.	—	—
Connector mating and unmating forces	Measured with an applicable connector. Without locking device.	Mating and unmating forces :40 N MAX.	X	—
Mechanical operation	Mated and unmated 2,000 times.	Contact resistance: 4 mΩ MAX.	X	—
Vibration	Frequency: 10 → 55 → 10 Hz, single amplitude 0.75 mm, 5min/cycle, for 10 cycles in each of three mutually perpedicular directions.	①No electrical discontinuity of 10 μs. ②No damage, crack and looseness, of parts.	X	—
Shock	Acceleration: 490m/s², half sine wave pulses of 11ms. Performed 3 times in each of three mutually perpendicular directions.	① No electrical discontinuity of 10 μs. ② No damage, crack and looseness, of parts.	X	—
ENVIRONMENTAL CHARACTERISTICS				
Damp heat (Steady state)	Subjected to 40°C, at a humidity of 90 to 95% for 96h.	①Insulation resistance:100 MΩ MIN (When dry). ②No damage, crack and looseness, of parts.	X	—
Rapid change of temperature	Temperature -55→ R/T(1) → +85 → R/T ℃ Time 30 → 2 to 3 → 30 → 2 to 3 min for 5 cycles.	① Insulation resistance: 100 MΩ MIN. ② No damage, crack and looseness of parts.	X	—
Corrosion salt mist	Subjected to 5% salt spray for 48h.	No heavy corrosion which impairs functionality.	X	—
Heat resistance	Subjected to +85°C for 96h.	No damage, crack and looseness of parts.	X	—
Cold resistance	Subjected to -55°C for 96h.	No damage, crack and looseness of parts.	X	—
Resistance to soldering heat	Soldering iron is placed to the soldering surface for 3s. (Iron tip temperature +380±10℃)	No deformation or excessive looseness of terminals.	X	—
Solder ability	Soldered at solder temperature, +350±10℃ for immersion duration, 3s.	Soldering surface shall be free from pin-holes, de-wetted and un-wetted areas and other defects.	X	—
Sealing(2) (IPX8)	Subjected to a depth of 1.8m for 48h.	No water penetration into the connector.	X	—
Airtightness(2)	17.6 kPa of air pressure applied to the inside of the mated connector for 30s.	No air bubbles emitted from the inside of the connector.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARKS

Notes (1) R/T : Room temperature

(2) Sealing and Air Tightness shall be tested in mated condition with an applicable connector.

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

APPROVED	TP.KOMATSU	20221019
CHECKED	HY.KOBAYASHI	20221019
DESIGNED	HT.ZENBA	20221019
DRAWN	KR.SUZUKI	20220922

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-111068-82-00

HRS	SPECIFICATION SHEET	PART NO.	RM15WTPZ-4P(82)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0109-1617-1-82	A 1/1

FORM HD0011-2-1