

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 perpendicular 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 °C 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°C)	No deformation or excessive looseness of terminals.	X	—
Solder ability		Soldered at solder temperature, +350±10°C 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
①					
REMARKS			APPROVED	TP.KOMATSU	20221019
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).			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-111157-82-00	
HRS	SPECIFICATION SHEET		PART NO.	RM15WTPZA-4P (82)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0109-1735-8-82	△ 1/1