

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
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.		4 mΩ MAX.	X	X
Insulation resistance		500 V DC.		1000 MΩ MIN.	X	X
Voltage proof		1000 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 :80 N MAX.	X	—
Mechanical operation		Mated and unmated 2,000 times.		Contact resistance: 8 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 or looseness of parts.	X	—
Shock		Acceleration: 490m/s ² , 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: — MΩ MIN (At high humidity). ②Insulation resistance:100 MΩ MIN (When dry). ③No 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	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
①						
REMARKS Note (1) R/T : Room temperature				APPROVED	TP.KOMATSU	20221013
				CHECKED	HY.KOBAYASHI	20221013
				DESIGNED	HT.ZENBA	20221013
				DRAWN	KR.SUZUKI	20220916
Unless otherwise specified, refer to IEC 60512 (JIS C 5402).						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-003429-81-00	
	SPECIFICATION SHEET		PART NO.	RM21TR-20P (81)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0109-0326-3-81		1/1