

APPLICABLE STANDARD					
RATING	Operating temperature range	-10 °C TO +60 °C	Storage temperature Range	-10 °C TO +60 °C	
	Voltage	AC 100 V , DC 140 V	_____	_____	
	Current	2 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	15 mΩ MAX.	X	—
Insulation resistance		250 V DC.	1000 mΩ MIN.	X	X
Voltage proof		300 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.	Insertion and withdrawal forces Locking device with lock : 50 N MAX.	X	—
Mechanical operation		1000 times insertions and extractions.	Contact resistance: 20 mΩ MAX.	X	—
Vibration		Frequency: 10 TO 55 Hz, Single amplitude 0.75 mm, — m/s ² AT 2 h, for 3 directions.	①No electrical discontinuity of 10 μs. ②No damage, crack and looseness of parts.	X	—
Shock		490 m/s ² duration of pulse 11 ms AT 3 times for 3 directions.	①No electrical discontinuity of 10 μs. ②No damage, crack and looseness of parts.	X	—
ENVIRONMENTAL CHARACTERISTICS					
Damp heat (steady state)		Exposed at 40 °C, 90 TO 95 %, 96 h.	①Insulation resistance: 10 MΩ MIN. (At high humidity). ②Insulation resistance: 100 MΩ MIN. (At dry). ③No damage, crack and looseness of parts.	X	—
Rapid change of temperature		Temperature -55→ R/T ⁽¹⁾ → +85 → R/T °C time 30 → 10 TO 15 → 30 → 10 TO 15 min under 5 cycles.	①Insulation resistance: 1000 mΩ MIN. ②No damage, crack and looseness of parts.	X	—
Corrosion salt mist		Exposed in 5 % salt water spray for 48 h.	No heavy corrosion 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, + 350 ± 10 °C ,for soldering duration, 5 s.	No deformation of case of excessive looseness Of the terminals.	X	—
Solderability		Soldered at solder temperature, + 350 ± 10 °C for soldering duration, 3 s.	Wetting on solder surface. No solder cluster.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
REMARK			APPROVED	EJ. KUNII	16.05.17
(1) R/T : Room temperature The std. Value above indicates at the state applicable contact assembled.			CHECKED	EJ. KUNII	16.05.17
			DESIGNED	MM. ISHII	16.05.17
Unless otherwise specified, refer to IEC 60512 (JIS C 5402).			DRAWN	MM. ISHII	16.05.17
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-010245-01-00	
	SPECIFICATION SHEET		PART NO.	RP13A-12RA-13PA (01)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL113-0202-0-01	 1/1