

APPLICABLE STANDARD					
Rating	Operating Temperature range	-55 °C to 85 °C ⁽¹⁾	Operating Humidity range	Relative humidity 95 % MAX ⁽³⁾	
	Voltage	50 V AC	Storage Temperature range	-10 °C to 60 °C ⁽²⁾	
	Current	0.3 A	Storage Humidity range	40 % to 70 % ⁽²⁾	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
General examination		Visually and by measuring instrument.	According to drawing.	×	×
Marking		Confirmed visually.		×	×
ELECTRIC CHARACTERISTICS					
Contact resistance		100 mA(DC or 1000 Hz)	60 mΩ MAX .	×	—
Insulation resistance		100 V DC.	100 MΩ MIN.	×	—
Voltage proof		150 V AC FOR 1 min.	No flashover or breakdown.	×	×
MECHANICAL CHARACTERISTICS					
Insertion and withdrawal forces		Measured by applicable connector.	Insertion force : 86.4 N MAX. Withdrawal force : 3.6 N MIN.	×	—
Mechanical operation		50 times insertions and extractions.	1) Contact resistance: 70 mΩ MAX. 2) No damage, crack and looseness of parts.	×	—
Vibration		Frequency 10 to 55 to 10 Hz, Single amplitude: 0.75 mm, 10 cycles For 3 axial directions.	1) No electrical discontinuity of 1 μs. 2) No damage, crack and looseness of parts.	×	—
Shock		490 m/s ² , duration of pulse 11 ms at 3 times for 3 both axial directions.		×	—
ENVIRONMENTAL CHARACTERISTICS					
Damp heat (Steady state)		Exposed at 40 °C, 90 to 95 %, 96 h.	1) Contact resistance: 70 mΩ MAX. 2) Insulation resistance: 100 MΩ MIN. 3) No damage, crack and looseness of parts.	×	—
Rapid change of temperature		Temperature: -55 → +85 °C Time : 30 → 30 min. Under 5 cycles. (Relocation time to chamber: Within 2 to 3 min)		×	—
Cold		Exposed at -55 °C, 96 h	1) Contact resistance : 70 mΩ MAX. 2) No damage, crack and looseness of parts.	×	—
Dry heat		Exposed at +85 °C, 96 h		×	—
Corrosion salt mist		Exposed in 5 % salt water spray for 48 h.	1) Contact resistance : 70 mΩ MAX. 2) No heavy corrosion.	×	—
Sulfur dioxide		Exposed 25 ppm, 25±2 °C, 75±5 %RH, for 96 h. (Test standard: JIS C 60068)		×	—
Resistance to soldering heat		1) Reflow soldering: Peak tmp : 250 °C MAX Reflow tmp: 220 °C MIN for 60sec 2) Soldering irons: 360 °C MAX for 5 sec.	No deformation of case of excessive looseness of the terminal.	×	—
Solderability		Soldered at solder temperature 240 °C for immersion duration, 3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARKS (1)Temperature rise included when energized. (2)This storage indicates a long-term storage state for the unused product before the board mounted. (3)Non-condensing. Unless otherwise specified, refer to IEC-60512.			APPROVED	HT. YAMAGUCHI	20191008
			CHECKED	HT. YAMAGUCHI	20191008
			DESIGNED	MT. ITANO	20191008
			DRAWN	PENGYU LIU	20191008
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-362074-83-00
HRS	SPECIFICATION SHEET		PART NO.	FX10A-144P-SV3 (83)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0057-0-83	△ 1/1