


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 : 72.0 N MAX. Withdrawal force: 3.0 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 ± 2 °C, 90 to 95 %, 96 h.		1)Contact resistance : 70 mΩ MAX. 2)Insulation resistance: 100 MΩ MIN.		×	—
Rapid change of temperature		Temperature: -55 → +85 °C Time : 30 → 30 min. Under 5 cycles. (Relocation time to chamber:Within 2 to 3 min)		3)No damage, crack and looseness of parts.		×	—
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 10 ppm, 40 °C, 75 ± 5 % 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 ± 3 °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		NH. NAKATA	17.11.22
				CHECKED		HT. YAMAGUCHI	17.11.22
				DESIGNED		MT. ITANO	17.11.21
				DRAWN		MT. ITANO	17.11.21
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-362078-83-00	
		SPECIFICATION SHEET		PART NO.		FX10A-120P-SV4 (83)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL570-0061-7-83 △ 1/1	