

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	17.01.24	
			CHECKED	HT. YAMAGUCHI	17.01.24	
			DESIGNED	MT. ITANO	17.01.24	
			DRAWN	MT. ITANO	17.01.24	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-362076-83-00	
HRS	SPECIFICATION SHEET		PART NO.	FX10A-120P-SV2 (83)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0059-5-83	△	1/1