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. 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 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
△0					

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-362077-83-00

HRS	SPECIFICATION SHEET	PART NO.	FX10A-120P-SV3(83)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL570-0060-4-83	△0 1/1

FORM HD0011-2-1