



THE DATASHEET OF FX23-100S-0.5SH

APPLICABLE STANDARD							
Rating	Operating Temperature Range 	-55 °C to 105 °C ⁽¹⁾		Storage Temperature Range	-10 °C to 60 °C ⁽²⁾		
	Voltage	Signal Contact : 50 V AC Power Contact : 200 V AC		Storage Humidity Range	Relative humidity 85% max (Not dewed)		
	Current	Signal Contact : 0.5 A Power Contact : 3.0A		Operating Humidity Range			
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		100 mA(DC or 1000Hz)		Signal Contact : 70mΩ MAX. Power Contact : 20mΩ MAX.		x	—
Insulation Resistance		Signal Contact : 100 V DC. Power Contact : 250 V DC		Signal Contact : 100 MΩ MIN. Power Contact : 1000 MΩ MIN.		x	—
Voltage Proof		Signal Contact : 150 V AC for 1 min.		No flashover or breakdown.		x	x
		Power Contact : 600 V AC for 1 min.				x	—
MECHANICAL CHARACTERISTICS							
Insertion and Withdrawal Forces		Measured by applicable connector.		Insertion Force: 45 N MAX. Withdrawal Force: 5 N MIN.		x	—
Mechanical Operation		100 times insertions and extractions.		① Contact Resistance: Signal Contact : 80mΩ MAX. Power Contact : 30mΩ MAX. ② No damage, crack and looseness of parts.		x	—
Vibration		Frequency 10 to 55 to 10Hz, approx 5min 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.		x	—
Shock		490 m/s ² , duration of pulse 11 ms at 3 times for 3 both axial directions.				x	—
ENVIRONMENTAL CHARACTERISTICS							
Damp Heat (Steady state)		Exposed at 40±2 °C, 90 ~ 95 %, 96 h.		① Contact Resistance: Signal Contact : 80mΩ MAX. Power Contact : 30mΩ MAX. ② Insulation Resistance: Signal Contact : 100 MΩ MIN. Power Contact : 1000 MΩ MIN. ③ No damage, crack and looseness of parts.		x	—
Rapid Change of Temperature		Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2~3 MIN)				x	—
Cold		Exposed at -55°C, 96 h		① Contact Resistance: Signal Contact : 80mΩ MAX. Power Contact : 30mΩ MAX. ② No damage, crack and looseness of parts.		x	—
Dry Heat 		Exposed at 105°C, 96 h				x	—
Sulfur Dioxide		Exposed at 25±2°C, 75±5%RH, 25 PPM for 96 h. (Test standard: IEC 68)		① No defect such as corrosion which impairs the function of connector. ② Contact Resistance: Signal Contact : 80mΩ MAX. Power Contact : 30mΩ MAX.		x	—
Resistance to Soldering Heat		1)Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec 2) Soldering irons : 360°C MAX. for 5 sec.				x	—
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.		x	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
	2	DIS-F-00002058		TS. 00N0	HT. YAMAGUCHI	17. 02. 01	
REMARKS ⁽¹⁾ Include temperature rise caused by current-carrying. ⁽²⁾ "STORAGE" means a long-term storage state for the unused product before assembly to PCB.				APPROVED	HS. OKAWA	14. 07. 22	
				CHECKED	KN. SHIBUYA	14. 07. 22	
				DESIGNED	TS. 00N0	14. 07. 22	
				DRAWN	TS. 00N0	14. 07. 22	
Unless otherwise specified, refer to IEC 60512.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-353569-00-00	
	SPECIFICATION SHEET			PART NO.	FX23-100S-0. 5SH		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL573-3405-0-00		1/1

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