

APPLICABLE STANDARD		SPECIFICATIONS			
Rating	Operating Temperature Range 	-55 °C to 105 °C <sup>(1)</sup>	Storage Temperature Range	-10 °C to 60 °C <sup>(2)</sup>	
	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		
CONSTRUCTION					
General Examination	Visually and by measuring instrument.	According to drawing.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Marking	Confirmed visually.			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ELECTRIC CHARACTERISTICS					
Contact Resistance	100 mA(DC or 1000Hz)	Signal Contact : 70mΩ MAX. Power Contact : 20mΩ MAX.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Insulation Resistance	Signal Contact : 100 V DC. Power Contact : 250 V DC	Signal Contact : 100 MΩ MIN. Power Contact : 1000 MΩ MIN.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltage Proof	Signal Contact : 150 V AC for 1 min. Power Contact : 600 V AC for 1 min.	No flashover or breakdown.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MECHANICAL CHARACTERISTICS					
Insertion and Withdrawal Forces	Measured by applicable connector.	Insertion Force: 18 N MAX. Withdrawal Force: 2 N MIN.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Shock	490 m/s <sup>2</sup> , duration of pulse 11 ms at 3 times for 3 both axial directions.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2~3 MIN)	② Insulation Resistance: Signal Contact : 100 MΩ MIN. Power Contact : 1000 MΩ MIN. ③ No damage, crack and looseness of parts.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cold	Exposed at -55°C, 96 h	① Contact Resistance: Signal Contact : 80mΩ MAX. Power Contact : 30mΩ MAX.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dry Heat 	Exposed at 105°C, 96 h	② No damage, crack and looseness of parts.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	No deformation of case of excessive looseness of the terminal.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
 2	DIS-F-00002058	TS. 00NO	HT. YAMAGUCHI	17.02.01	
REMARKS <sup>(1)</sup> Include temperature rise caused by current-carrying. <sup>(2)</sup> "STORAGE" means a long-term storage state for the unused product before assembly to PCB.				APPROVED	HS. OKAWA
				CHECKED	KN. SHIBUYA
				DESIGNED	TS. 00NO
				DRAWN	TS. 00NO
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					
		SPECIFICATION SHEET	PART NO.	FX23-40S-0.5SH	
		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL573-3402-1-00	 1/1