

APPLICABLE STANDARD		SPECIFICATIONS			
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>	
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %	
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>	
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 1000 Hz).	45 mΩ MAX.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)	55 mΩ MAX.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
INSULATION RESISTANCE	250 V DC	100 MΩ MIN.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
VOLTAGE PROOF	300 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: 88.2 N MAX. WITHDRAWAL FORCE: 9.8 N MIN.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min. UNDER 5 CYCLES.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38)				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	2) SOLDERING IRONS : 360 °C, FOR 5 s				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 2s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED		DATE
					
REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED. <sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.				APPROVED	HS.OKAWA 06.10.23
				CHECKED	HS.OZAWA 06.10.20
				DESIGNED	KY.NAKAMURA 06.10.20
				DRAWN	AK.SUZUKAWA 06.10.19
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-082424-21
	SPECIFICATION SHEET		PART NO.	FX2-100S-1.27SV(71)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL572-2108-2-71	 1/1