

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾		
	VOLTAGE	125 V AC		OPERATING HUMIDITY RANGE	40 % TO 80 %		
	CURRENT	0.5 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).		45 mΩ MAX.		×	—
CONTACT RESISTANCE		20 mV MAX, 1 mA(DC OR 1000Hz)		55 mΩ MAX.		×	—
MILLIVOLT LEVEL METHOD							
INSULATION RESISTANCE		250 V DC		100 MΩ MIN.		×	—
VOLTAGE PROOF		300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		×	—
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 88.2 N MAX. WITHDRAWAL FORCE: 9.8 N MIN.		×	—
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
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.		×	—
SHOCK		490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				×	—
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.		×	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE: -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min. UNDER 5 CYCLES.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.		×	—
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38)				×	—
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		×	—
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.		×	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
△							
REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ 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	
Unless otherwise specified, refer to MIL-STD-1344.				DRAWN	AK. SUZUKAWA	06.10.19	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-082424-21	
HRS	SPECIFICATION SHEET			PART NO.	FX2-100S-1. 27SV (71)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL572-2108-2-71 △ 1/1		