

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾		
	VOLTAGE	100 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.			×	×
ELECTRICAL CHARACTERISTICS						
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).		40 mΩ MAX .	×	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX, 1 mA(DC OR 1000Hz)		50 mΩ MAX .	×	
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: 17.6 N MAX. EXTRACTION FORCE: 2.0 N MIN.	×	
MECHANICAL OPERATION		100 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.76 mm, AT 2 h FOR 3 DIRECTION.		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: 50 mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN.	×	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 5 MAX → 30 →5 MAXmin 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: 50 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 IRON 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE 240±5°C FOR IMMERSION DURATION, 3s.		A NEW UNIFORM COATING OF SOLDER SHALL OVER 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. Unless otherwise specified, refer to MIL-STD-1344.				APPROVED	HS.OKAWA	05.08.03
				CHECKED	HS.OZAWA	05.08.02
				DESIGNED	TH.NODA	05.07.25
				DRAWN	TK.YANAGISAWA	05.07.25
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-084977-23
		SPECIFICATION SHEET		PART NO.		FX6-20S-0.8SV (93)
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL576-0101-8-93
						1/1