

APPLICABLE STANDARD		SPECIFICATIONS					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾		OPERATING HUMIDITY RANGE	40 TO 80 % MAX ⁽³⁾		
	VOLTAGE	100 V AC		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾		
	CURRENT	0.4 A		STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾		
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 1000 Hz)		45 mΩ MAX.		X —		
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA (DC or 1000Hz)		55 mΩ MAX.		X —		
INSULATION RESISTANCE	250 V DC.		100 MΩ MIN.		X —		
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X X		
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE : 84.0 N MAX. WITHDRAWAL FORCE: 7.8 N MIN.		X —		
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, SINGLE AMPLITUDE: 0.75 mm, AT 2 h FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) CONTACT RESISTANCE: 55 mΩ MAX. 3) 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 TO 95 %, 96 h.		1) CONTACT RESISTANCE : 55 mΩ MAX. 2) INSULATION RESISTANCE: 100 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 TO 3 min)				X —		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				X —		
HYDROGEN SULPHIDE	EXPOSED 3 ppm FOR 96 h. (TEST STANDARD: JEIDA-38)		2) NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.		X —		
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP : 250 °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.		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		
							
REMARKS		(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. (3) NON-CONDENSING. Unless otherwise specified, refer to IEC-60512.		APPROVED	NH. NAKATA		
				CHECKED	HT. YAMAGUCHI		
				DESIGNED	TY. EDAGAWA		
				DRAWN	MK. INOUE		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-150884-68-00		
	SPECIFICATION SHEET		PART NO.	FX8C-120S-SV (68)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL578-0806-6-68	 1/1		