

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>		
	VOLTAGE	50 V AC		OPERATING HUMIDITY RANGE	95 % RH MAX. (NO DEW CONDENSATION IS PERMITTED)		
	CURRENT	0.3 A					
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).			60 mΩ MAX.	×		
INSULATION RESISTANCE	100 V DC			100 MΩ MIN.	×		
VOLTAGE PROOF	150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.	×	×	
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 72 N MAX. WITHDRAWAL FORCE: 7.8 N MIN.	×		
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTATIONS.			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, WITH 10 CYCLES IN 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms 3 TIMES IN 3 DIRECTIONS.				×		
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.			① CONTACT RESISTANCE: 70 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	×		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 2 ~ 3 → 30 → 2 ~ 3 min. UNDER 5 CYCLES.			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
DRY HEAT	EXPOSED AT 85 °C, 96h.			① CONTACT RESISTANCE: 70 mΩ MAX.	×		
COLD	EXPOSED AT -55 °C, 96h.			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			NO HEAVY CORROSION.	×		
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION.	×		
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 MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	×		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec.			NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	×		
	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	05.09.03	
				CHECKED	HS. OZAWA	05.09.02	
				DESIGNED	TH. NODA	05.09.02	
Unless otherwise specified, refer to JIS C 5402.				DRAWN	TH. NODA	05.09.02	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-151950-21	
<b>HRS</b>	SPECIFICATION SHEET			PART NO.	FX10B-120P/12-SV (91)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL570-0023-8-91	△	1/1