

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾	
	VOLTAGE	50 V AC	OPERATING HUMIDITY RANGE	95 % RH MAX.	
	CURRENT	0.3 A		(NO DEW CONDENSATION IS PERMITTED)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
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).		60 mΩ MAX.	x	—
INSULATION RESISTANCES	100 V DC		100 MΩ MIN.	x	—
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	x
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 90 N MAX. WITHDRAWAL FORCE: 6 N MIN.	x	—
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			x	—
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.	x	—
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.	x	—
DRY HEAT	EXPOSED AT 85 °C, 96 h.		① CONTACT RESISTANCE: 70 mΩ MAX.	x	—
COLD	EXPOSED AT -55 °C, 96 h.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.	x	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: IEC 68)		① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION.	x	—
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.	x	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 3 s.		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
△					
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	YH. YAMADA	20210529
			CHECKED	HT. YAMAGUCHI	20210528
			DESIGNED	ST. HAMADA	20210528
			DRAWN	ST. HAMADA	20210528
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-152110-91-21
HRS	SPECIFICATION SHEET		PART NO.	FX11LA-100S/10-SV (91)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0573-0104-7-91	△ 1/1