

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. (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).			70 mΩ MAX.	×	-
INSULATION RESISTANCES	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: 108 N MAX. WITHDRAWAL FORCE: 7.2 N MIN.	×	-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	-
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.	×	-
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: 80 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, 96 h.			① CONTACT RESISTANCE: 80 mΩ MAX.	×	-
COLD	EXPOSED AT -55 °C, 96 h.			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: 80 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 DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 ± 3 °C, FOR IMMERSION DURATION, 3 s.			A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	×	-
COUNT	DESCRIPTION OF REVISIONS			DESIGNED	CHECKED	DATE
0						
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	06.02.20
				CHECKED	HS. OZAWA	06.02.20
				DESIGNED	KY. NAKAMURA	06.02.20
Unless otherwise specified, refer to JIS C 5402.				DRAWN	KY. NAKAMURA	06.02.20
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-152635-25
HRS	SPECIFICATION SHEET			PART NO.	FX11A-120S/12-SV (71)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL573-0705-7-71	0 1/1