

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT	
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	RELATIVE HUMIDITY 95 % RH MAX. <sup>(3)</sup>			
	CURRENT	0.3 A		STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>			
SPECIFICATIONS								
ITEM	TEST METHOD			REQUIREMENTS			QT	AT
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			X	X
MARKING	CONFIRMED VISUALLY.						X	X
<b>ELECTRIC CHARACTERISTICS</b>								
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).			60 mΩ MAX.			X	-
INSULATION RESISTANCE	100 V DC			100 MΩ MIN.			X	-
VOLTAGE PROOF	150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			X	X
<b>MECHANICAL CHARACTERISTICS</b>								
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE:	86.4 N MAX.			X
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.			WITHDRAWAL FORCE:	3.6 N MIN.			-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS.			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X
<b>ENVIRONMENTAL CHARACTERISTICS</b>								
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. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +15 → +35 → +85 → +15 → +35 °C TIME 30 → 2 ~ 3 → 30 → 2 ~ 3 min. UNDER 5 CYCLES.							X
DRY HEAT	EXPOSED AT 85 °C, 96h.			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X
COLD	EXPOSED AT -55 °C, 96h.							X
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 70 mΩ MAX. ② NO HEAVY CORROSION.				X
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)							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 DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.				X
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 °C, FOR IMMERSION DURATION, 3 s.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.				X
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED		DATE		
△								
<b>REMARK</b> <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. <sup>(3)</sup> NO DEW CONDENSATION IS PERMITTED. Unless otherwise specified, refer to JIS C 5402.								
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC4-151954-22			
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		FX10A-144P-SV (92)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL570-0043-5-92		
				APPROVED		HS. OKAWA		
				CHECKED		HT. YAMAGUCHI		
		DESIGNED		KJ. NISHIWAKI		13.12.10		
		DRAWN		KJ. NISHIWAKI		13.12.10		