

In case of consideration for using Autom otive equipm ent/device which dem and high reliability, kindly contactour sales w indow 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:	57.6 N MAX.		x	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.			WITHDRAWAL FORCE:	2.4 N MIN.		x	
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.				
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 OVER 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.								
<b>Unless otherwise specified, refer to JIS C 5402.</b>								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-151968-21				
<b>HRS</b> SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.		PART NO.		FX10A-96P-SV1 (91)				
		CODE NO.		CL570-0141-4-91				
		APPROVED		HS. OKAWA		10.08.16		
		CHECKED		HT. YAMAGUCHI		10.08.16		
DESIGNED		SY. KAMIIGA		10.08.07				
DRAWN		HK. SUWADORI		10.08.06				