

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		Q	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	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %			
	CURRENT	0.4 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>			
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD		REQUIREMENTS		Q	AT	
<b>CONSTRUCTION</b>							
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).		45 mΩ MAX.		X	-	
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)		55 mΩ MAX.		X	-	
MILLIVOLT LEVEL METHOD							
INSULATION RESISTANCE	250 V DC		100 MΩ MIN.		X	-	
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-	
<b>MECHANICAL CHARACTERISTICS</b>							
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 98 N MAX. WITHDRAWAL FORCE: 9.1 N MIN.		X	-	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz. AMPLITUDE : 1.5 mm, AT 2h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 55 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
SHOCK	490 ms <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95%, 96 h.		① CONTACT RESISTANCE: 55 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	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48h.		① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.		X	-	
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96h. (TEST STANDARD: JEIDA 38)				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 TERMINALS.		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 IMMERSSED.		X	-	
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. Unless otherwise specified, refer to JIS C 5402.		APPROVED	HS. OKAWA	06.03.07		
			CHECKED	HS. OZAWA	06.03.07		
			DESIGNED	K.Y. NAKAMURA	06.03.06		
			DRAWN	K.Y. NAKAMURA	06.03.06		
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-150678-22				
<b>HRS</b>	SPECIFICATION SHEET	PART NO.	FX8-140S-SV (22)				
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL578-0207-1-22				
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