


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 ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾			
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %			
	CURRENT	0.4 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾			
SPECIFICATIONS							
ITEM	TEST METHOD		REQUIREMENTS		QT	AT	
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X	X
MARKING	CONFIRMED VISUALLY.				X	X	X
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		45 mΩ MAX.		X	X	-
MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)		55 mΩ MAX.		X	X	-
INSULATION RESISTANCE	250 V DC		100 MΩ MIN.		X	X	-
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	X	-
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, 2 hrs IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 55 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	X	-
SHOCK	490 ms ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.				X	X	-
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 hrs.		① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: 55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min 5 CYCLES.				X	X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.		① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.		X	X	-
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 hrs. (TEST STANDARD: JEIDA 38)				X	X	-
RESISTANCE TO SOLDERING HEAT	1)AUTOMATIC SOLDERING (REFLOW) SOLDER TEMPERATURE, 250°C MAX 220°C MIN. FOR 60 sec. 2)MANUAL SOLDERING SOLDERING IRON TEMPRATURE: 360°C SOLDERING TIME : 5 sec MAX		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.		X	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. Unless otherwise specified, refer to JIS C 5402.		APPROVED	HS. OKAWA	07.05.09		
			CHECKED	HS. OZAWA	07.05.09		
			DESIGNED	KI. DOI	07.05.09		
			DRAWN	TS. MIYAKI	07.05.07		
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-150573-21				
 SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.		PART NO.	FX8-140P-SV1 (71)				
		CODE NO.	CL578-0047-7-71				
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