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

APPLICABLE STANDARD					
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	0.5 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
MARKING	CONFIRMED VISUALLY.			x	x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		40 mΩ MAX.	x	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)		50 mΩ MAX.	x	
INSULATION RESISTANCE	250 V DC		100 MΩ MIN.	x	
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE : 88.2 N MAX. WITHDRAWAL FORCE : 9.8 N MIN.	x	
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, 2 hrs IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.			x	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 hrs.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	x	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+15~+35→+85→+15~+35 °C TIME 30 → MAX 5 → 30 → MAX 5 min 5 CYCLES.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	x	
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 hrs. (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°C, FOR IMMERSION DURATION, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	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.			APPROVED	HS. OKAWA	07. 04. 18
			CHECKED	HS. OZAWA	07. 04. 17
Unless otherwise specified, refer to MIL-STD-1344.			DESIGNED	KT. DOI	07. 04. 17
			DRAWN	TS. MIYAKI	07. 04. 11
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-084986-21	
HRS	SPECIFICATION SHEET		PART NO.	FX6-100S-0. 8SV2 (91)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL576-0128-4-91	△ 1/1