

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C <sup>(2)</sup>	
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>		OPERATING HUMIDITY RANGE	
	VOLTAGE	30 V AC		95 % RH MAX.	
	CURRENT	0.3 A		(NO DEW CONDENSATION IS PERMITTED)	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	Q1	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).	100 mΩ MAX.	x		
INSULATION RESISTANCE	100 V DC	50 MΩ MIN.	x		
VOLTAGE PROOF	100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x		
<b>MECHANICAL CHARACTERISTICS</b>					
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.				
△1		PIN	INSERTION FORCE (MAX)	WITHDRAWAL FORCE (MIN)	x
		24	49.6N	4.96 N	
		40	56 N	5.6 N	
		60	64 N	6.4 N	
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRactions.	① CONTACT RESISTANCE: 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES IN 3 AXIAL DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
SHOCK	490 ms <sup>2</sup> , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.		x		
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95%, 96 hrs.	① CONTACT RESISTANCE: 120 mΩ MAX. ② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
RAPID CHANGE OF TEMPERATURE	△1 TEMPERATURE -55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min. 5 CYCLES.	① CONTACT RESISTANCE: 120 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.	NO HEAVY CORROSION.	x		
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 hrs. (TEST STANDARD: JIS C 0090)		x		
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 sec. 2) SOLDERING IRONS : 360 °C, FOR 5 sec.	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 IMMERSSED.	x		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△1 2	DIS-F-006120	TS. 00N0	HT. YAMAGUCHI	12.03.26	
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.					
Note Q1:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-156245-00	
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	
				FX12B-*S-0.4SV	
				△1 1/1	