




APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾		
	VOLTAGE	30 V AC	OPERATING HUMIDITY RANGE	95 % RH MAX.		
	CURRENT	0.3 A	(NO DEW CONDENSATION IS PERMITTED)			
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).	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	
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCE		MEASURED BY APPLICABLE CONNECTOR.	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 m/s ² , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.			x	
ENVIRONMENTAL CHARACTERISTICS						
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		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 IMMERSED.		x	
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
① 2	DIS-F-006120		TS. 00N0	HT. YAMAGUCHI	12. 03. 26	
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	06. 04. 11	
			CHECKED	HT. YAMAGUCHI	06. 04. 11	
			DESIGNED	TH. NODA	06. 04. 10	
			DRAWN	TH. NODA	06. 04. 10	
Unless otherwise specified, refer to JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-156245-00	
		SPECIFICATION SHEET		PART NO.	FX12B-*S-0. 4SV	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	 1/1	