

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	x
				40	56 N	5.6 N	
				60	64 N	6.4 N	
				MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.	
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.			APPROVED	HS. OKAWA	06. 04. 11		
⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.			CHECKED	HT. YAMAGUCHI	06. 04. 11		
			DESIGNED	TH. NODA	06. 04. 10		
Unless otherwise specified, refer to JIS C 5402.			DRAWN	TH. NODA	06. 04. 10		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-156244-00		
		SPECIFICATION SHEET		PART NO.	FX12B-*P-0. 4SV		
HIROSE ELECTRIC CO., LTD.		CODE NO.		 1/1			