

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).		120 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.		INSERTION FORCE: 72.0 N MAX. WITHDRAWAL FORCE: 7.2 N MIN. 	x	
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 140 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: 140 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: 140 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 s 2) SOLDERING IRONS : 360 °C, FOR 5 s		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 IMMERSSED.	x	
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
	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	07. 05. 22
				CHECKED	HS. OZAWA	07. 05. 22
				DESIGNED	KT. DOI	07. 05. 22
				DRAWN	TS. MIYAKI	07. 05. 17
Unless otherwise specified, refer to JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-156187-01
		SPECIFICATION SHEET		PART NO.		FX12MB-80P-0. 4SV
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL573-1009-1-00  1/1