

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
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CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	x	x
MARKING	CONFIRMED VISUALLY.		x	x

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	50 mΩ MAX.	x	—
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	60 mΩ MAX.	x	—
MILLIVOLT LEVEL METHOD				
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 FORCES	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE : 80 N MAX WITHDRAWAL FORCE : 10 N MIN	x	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 0.75 mm, FOR 10 CYCLES 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 AT 3 TIMES FOR 3 DIRECTIONS.		x	—

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	x	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART	x	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	x	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)		x	—
RESISTANCE TO SOLDERING HEAT	1)SOLDER TEMPERATURE,260±5°C FOR IMMERSION,DURATION,10±1s. 2) SOLDERING IRONS : 360°C FOR 5 s MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	x	—
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE 240±5°C FOR IMMERSION DURATION, 3 s. Δ	A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	—

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△	DIS-F-002021	KT. DOI	HS. OZAWA	07.06.08

REMARKS

(1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED.

(2)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	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-154129-20
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HS	SPECIFICATION SHEET	PART NO.	FX5M1-100S-DSAL (70)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL575-1012-9-70
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TO

