

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ^{(1) (2)}		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽³⁾	
	OPERATING HUMIDITY RANGE	RH 85 % MAX ^{(2) (4)}		STORAGE HUMIDITY RANGE	RH 70 % MAX ^{(3) (4)}	
	VOLTAGE	60 V AC		CURRENT	0.5 A	
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		20 mV MAX, 1 mA(DC OR 1000Hz)		80 mΩ MAX. ⁽⁵⁾	x	
INSULATION RESISTANCE		100 V DC.		500 MΩ MIN.	x	
VOLTAGE PROOF		200 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	
MECHANICAL CHARACTERISTICS						
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE: 25.5 N MAX. WITHDRAWAL FORCE: 2.55 N MIN.	x	
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.75 mm, FOR 2 h 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 FOR 3 TIMES IN 3 DIRECTIONS.			x	
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.	x	
DRY HEAT		EXPOSED AT 85±2 °C, 96 h		② INSULATION RESISTANCE: 500 MΩ MIN.	x	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → +5~+35 → +85 → +5~+35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.	x	
SULFUR DIOXIDE		EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)		② NO DERECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	x	
RESISTANCE TO SOLDERING HEAT		1)REFLOW SOLDERING : REFLOW 2 TIMES UNDER THE TEMPERATURE PROFILE SHOWN BELOW. 2) SOLDERING IRONS : 360°C MAX. FOR 5 sec.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	x	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE 240±3°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		
△0						
REMARKS				APPROVED	HS. OKAWA	11. 11. 02
(1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.				CHECKED	HT. YAMAGUCHI	11. 11. 02
(2) OPERATING TEMPERATURE SHOULD BE -55 TO 40°C WHEN HUMIDITY EXCEEDS 80% RH.				DESIGNED	YJ. ASAO	11. 11. 02
(3) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.				DRAWN	GR. TAKESHIMA	11. 11. 02
(4) THERE MUST NOT BE DEWFALL.						
(5) DON'T INCLUDE CONDUCTOR RESISTANCE OF THE CABLE OF THE COMBINATION CONNECTOR.						
Unless otherwise specified, refer to JIS-C-5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-330633-01		
HRS SPECIFICATION SHEET		PART NO.		FX16M2-51S-0. 5SH (30)		
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL575-3004-1-30 △ 1/1		