

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		STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	
	CURRENT	0.5 A (SIGNAL CONTACT) ⁽³⁾ 3 A (MF CONTACT)		OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 85% max (NOT DEWED)	
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 1000Hz)			SIGNAL CONTACT : 90 mΩ MAX. MF CONTACT : 30 mΩ MAX.	x —	
INSULATION RESISTANCE	250 V DC.			1000 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: 8 N MIN.	x —	
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x —	
VIBRATION	FREQUENCY 10 TO 55 TO 10Hz, APPROX 5min SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES FOR 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: SIGNAL CONTACT : 100 mΩ MAX. MF CONTACT : 40 mΩ MAX.	x —	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +85 °C TIME 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2~3 MIN)			② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x —	
SULFUR DIOXIDE	EXPOSED AT 25±2°C, 75±5%RH, 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)			NO HEAVY CORROSION.	x —	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : PEAK TMP : 260°C MAX REFLOW TMP: 220°C MIN FOR 60sec 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
△						
REMARKS ⁽¹⁾ INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ⁽²⁾ "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB. ⁽³⁾ THE RATED CURRENT APPLIES TO PER CONTACT. APPLY 0.4A WHEN ALL THE CONTACTS ARE USED FOR CURRENT CARRYING. Unless otherwise specified, refer to JIS-C-5402.				APPROVED	HS. OKAWA	11. 03. 24
				CHECKED	KI. HIROKAWA	11. 03. 24
				DESIGNED	TH. SANO	11. 03. 24
				DRAWN	TH. SANO	11. 03. 24
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-159079-00
		SPECIFICATION SHEET		PART NO.		FX18-140P-0.8SH
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL579-0007-9-00
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