

REVISION HISTORY						REVISION HISTORY							
COUNT	DESCRIPTION OF REVISIONS			BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS			BY	CHKD	DATE
▲ 2	RE - F - 08696			S.K	R-7	03.03.12	▲						
▲							▲						
APPLICABLE STANDARD													
RATING	OPERATING TEMPERATURE RANGE		-55°C TO 85°C		STORAGE TEMPERATURE RANGE		-10°C TO 50°C (PACKED CONDITION)						
	VOLTAGE		30V AC		OPERATING OR STORAGE HUMIDITY RANGE		RELATIVE HUMIDITY 90 % MAX.(NOT DEWED)						
	CURRENT		0.3A		APPLICABLE CABLE		t=0.20±0.03mm, GOLD PLATING						
SPECIFICATIONS													
ITEM	TEST METHOD					REQUIREMENTS					QT	AT	
CONSTRUCTION													
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.					ACCORDING TO DRAWING.					×	×	
MARKING	CONFIRMED VISUALLY.										×	×	
ELECTRIC CHARACTERISTICS													
CONTACT RESISTANCE	AC 20mV MAX., 1mA.					100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm, THICKNESS OF COPPER FOIL: 35 μm)					×	×	
INSULATION RESISTANCE	100V DC.					50 MΩ MIN.					×	×	
VOLTAGE PROOF	90V AC FOR 1 min.					NO FLASHOVER OR BREAKDOWN.					×	×	
MECHANICAL CHARACTERISTICS													
FPC INSERTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)					0.15N/PIN MAX. (CONNECTOR, FPC AT INITIAL CONDITION)					×	—	
FPC RETENTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)					0.30N/PIN MIN. (CONNECTOR, FPC AT INITIAL CONDITION)					×	—	
MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.					① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					×	—	
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75mm, - m/s <sup>2</sup> FOR 10 CYCLES IN 3 DIRECTIONS.					① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 100 mΩ MAX.					×	—	
SHOCK	981m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.					③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					×	—	
ENVIRONMENTAL CHARACTERISTICS													
DAMP HEAT (STEADY STATE)	EXPOSED AT -40 °C, RELATIVE HUMIDITY 90 TO 95%, 96h.					① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					×	—	
DAMP HEAT,CYCLIC	EXPOSED AT -10 TO +65°C, RELATIVE HUMIDITY 90 TO 96%, 10 CYCLES,TOTAL 240 h.					① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					×	—	
REMARKS							DRAWN S.OKAMURA 02.11.11	DESIGNED S.OKAMURA 02.11.11	CHECKED R.TAKAYASU 02.11.11	APPROVED M.ISHIDA 02.11.12	RELEASED		
Unless otherwise specified, refer to JIS C 5402.													
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test													
 HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET				PART NO. FH23 - *S - 0.3SHW(05)					
CODE NO.(OLD) CL		DRAWING NO. ELC4 - 153547 - 01			CODE NO. CL 586			1		2			

SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS			QT	AT
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +15 TO +35 → +85 → +15 TO +35°C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.	① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	—
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	—
COLD	EXPOSED AT -55°C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	—
CORROSION SALT MIST	EXPOSED AT 35°C, 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE: 100 mΩ MAX.			X	—
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40°C, RELATIVE HUMIDITY 80%, 10 ~ 15 PPM FOR 96h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	—
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40 °C, RELATIVE HUMIDITY 80%, 25 PPM FOR 96 h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.			X	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : PEAK TMP. 250°C MAX. REFLOW TMP. 230°C MIN FOR 60 sec. 2) SOLDERING IRONS : TMP. 350±5°C FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235°C FOR IMMERSION DURATION, 2 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.			X	—
REMARKS						
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