

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									
<b>HIROSE</b> 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.			×	—
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
COLD	EXPOSED AT -55°C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
CORROSION SALT MIST	EXPOSED AT 35°C, 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
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.			×	—
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.			×	—
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.			×	—
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.			×	—
REMARKS Unless otherwise specified, refer to JIS C 5402.						
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CODE NO.(OLD) CL		DRAWING NO. ELC4 - 153547 - 01		CODE NO. CL 586		
FORM No.231-2						