

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +85 °C (NOTE1)		STORAGE TEMPERATURE RANGE	-40 °C TO 85 °C		
	VOLTAGE	250 V AC		CURRENT	1 A		
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		1A DC.		30 mΩ MAX.		×	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		30 mΩ MAX.		×	—
INSULATION RESISTANCE		500 V DC		100 MΩ MIN.		×	—
VOLTAGE PROOF		650 V AC FOR 1 MIN.		NO FLASHOVER OR BREAKDOWN.		×	—
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES		MEASURED WITH MATING PAIR CONNECTORS.		INSERTION FORCE 39.2 N MAX. WITHDRAWAL FORCE 7.5 N MIN.		×	—
MECHANICAL OPERATION		200 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 mΩ MAX.. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
VIBRATION		FREQUENCY 8.3 TO 200 Hz, 43.2 m/s <sup>2</sup> , AT 20 MIN UNDER 12 CYCLES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
SHOCK		981m/s <sup>2</sup> AT 6msec UNDER 10 CYCLES FOR 6 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE:60 mΩ MAX ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 39.2 N MAX.		① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.		×	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 60°C, 90 TO 95%, 4h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE: -40 → +85°C TIME 15 → 15 MIN UNDER 500 CYCLES.		① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
DRY HEAT		EXPOSED AT +85°C, 168h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		×	—
COLD		EXPOSED AT -40°C, 168h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△							
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	KS. SATOH	09. 04. 14	
				CHECKED	MO. OKADA	09. 04. 13	
				DESIGNED	MH. YAMAGUCHI	09. 04. 13	
				DRAWN	MH. YAMAGUCHI	09. 04. 13	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-166754-00		
HRS	SPECIFICATION SHEET		PART NO.	GT16F-1P-HU (B)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL766-0087-8-00		△	1/1