





APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-30 °C TO 105 °C (NOTE1)		STORAGE TEMPERATURE RANGE	-40 °C TO 105 °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.		x	x
MARKING		CONFIRMED VISUALLY.				x	x
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE		1A DC.		30 mΩ MAX.		x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		30 mΩ MAX.		x	—
INSULATION RESISTANCE		500 V DC		100 MΩ MIN.		x	—
VOLTAGE PROOF		650 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		x	—
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE		INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.		—	—
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/s ² AT 3 h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
SHOCK		FREQUENCY 20 TO 50 Hz, 66.6 m/s ² AT 1 h.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 60 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX.		① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS.		x	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 TO 95 %, 500 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE-40→5 TO 35→ 85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
DRY HEAT		EXPOSED AT 105°C, 300 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		x	—
COLD		EXPOSED AT -55°C , 120 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		x	—
CORROSION, SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		—	—
RESISTANCE TO HSO ³ GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		x	—
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		x	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3s. 		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
	1	DIS-T-00004246		HK. WATANABE		MO. OKADA	20190304
REMARK				APPROVED		KS. SATOH	20060414
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				CHECKED		KS. SATOH	20060414
(NOTE2) APPLICABLE BOARD: 1.6±0.2				DESIGNED		MO. OKADA	20010912
				DRAWN		SB. KURIYA	20060413
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-165789-00-00	
		SPECIFICATION SHEET		PART NO.		GT13S-1PP-DS	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL763-0027-7-00  1/1	