

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40 °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.		—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(OR 1kHz)		30 mΩ MAX.		—	—
INSULATION RESISTANCE		DC 500 V		100 MΩ MIN.		x	—
VOLTAGE PROOF		AC 650 V 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, 43.1m/s ² , AT 3h 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, 66.6m/ 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.		—	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 60°C, 90 TO 95%, 500h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		— x 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 x	— — —
DRY HEAT		EXPOSED AT 105°C, 300h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		— x	— —
COLD		EXPOSED AT -55°C, 120h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		— x	— —
RESISTANCE TO HSO ₃ GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		— x	— —
COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE	
①							
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	AR. SHIRAI	12. 01. 25	
				CHECKED	MO. OKADA	12. 01. 25	
				DESIGNED	TK. SUZUKI	12. 01. 24	
				DRAWN	KT. OKABE	12. 01. 20	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-165705-01		
HRS	SPECIFICATION SHEET		PART NO.		GT16-SC		
	HIROSE ELECTRIC CO., LTD.		CODE NO.		CL766-0002-5-00		
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