

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.		x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(OR 1kHz)		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		φ4.5 BY STEEL GAUGE.		INSERTION FORCE 29.4 N MAX. WITHDRAWAL FORCE 2.9 N MIN.		x	—
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 <sup>2</sup> , 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 <sup>2</sup> 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%, 500h.		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, 300h.		① CONTACT RESISTANCE: 60 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
COLD		EXPOSED AT -40°C, 120h.		① CONTACT RESISTANCE: 60 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		x	—
RESISTANCE TO HSO <sub>3</sub> GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		x	—
RESISTANCE TO SOLDERING HEAT		EXPOSE 2 TIMES AT SPECIFIED TEMPERATURE PROFILE.		NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		x	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3 s.		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		
△							
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	AR. SHIRAI	10. 09. 03	
				CHECKED	NH. NAKATA	10. 09. 03	
				DESIGNED	TK. SHISHIKURA	10. 09. 03	
				DRAWN	TK. SHISHIKURA	10. 09. 03	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-168291-00		
HRS	SPECIFICATION SHEET		PART NO.	GT16C-1P-H(A)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL766-0106-0-00	△	1/1	