

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 105 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO 105 °C	
	VOLTAGE	250 V DC	CURRENT	1A	
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(DC OR 1000Hz)	30 mΩ MAX.	-	-
INSULATION RESISTANCE		500 V DC	100 MΩ MIN.	-	-
VOLTAGE PROOF		500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	-	-
MECHANICAL CHARACTERISTICS					
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 x	- -
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 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→105→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 DAMAGE, CRACK AND LOOSENESS OF PARTS.	- x	- -
COLD		EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	- x	- -
RESISTANCE TO SO ₂ 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
△					
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			APPROVED	AR. SHIRAI	16. 06. 01
			CHECKED	KI. HIROKAWA	16. 05. 31
			DESIGNED	KT. OKABE	16. 05. 31
			DRAWN	KT. OKABE	16. 05. 31
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-168730-00-00
HRS	SPECIFICATION SHEET		PART NO.	GT21A-2S-HU (A)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL771-0048-1-00	△ 1/1