

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	$\triangle$ -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 m $\Omega$ MAX.	x	—	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		30 m $\Omega$ MAX.	x	—	
INSULATION RESISTANCE		500 V DC		100 M $\Omega$ MIN.	x	—	
VOLTAGE PROOF		500 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	—	
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
VIBRATION		FREQUENCY 20 TO 200 Hz, 43.1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 $\mu$ s. ② CONTACT RESISTANCE: 60 m $\Omega$ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
SHOCK		FREQUENCY 20 TO 50 Hz, 66.6 m/s <sup>2</sup> AT 1 h.		① NO ELECTRICAL DISCONTINUITY OF 10 $\mu$ s. ② CONTACT RESISTANCE: 60 m $\Omega$ 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 ~ 95 %, 500 h.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② INSULATION RESISTANCE:100 M $\Omega$ 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 m $\Omega$ MAX. ② INSULATION RESISTANCE:100 M $\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
DRY HEAT		EXPOSED AT 105°C, 300 h.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
COLD		EXPOSED AT -55°C , 120 h.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—	
RESISTANCE TO HSO <sub>3</sub> GAS		EXPOSED IN 500 PPM FOR 8h.		① CONTACT RESISTANCE: 60 m $\Omega$ 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		
$\triangle$	1	DIS-T-003823	TK. SUZUKI	HS. OZAWA	14. 03. 25		
REMARK				APPROVED	AR. SHIRAI	10. 03. 29	
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				CHECKED	NH. NAKATA	10. 03. 29	
(NOTE2) APPLICABLE BOARD : 1.6±0.2				DESIGNED	MO. OKADA	10. 03. 29	
(NOTE3) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 120 m $\Omega$ .				DRAWN	MO. OKADA	10. 03. 29	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-167461-00		
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	GT21-1P-DS			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL771-0007-4-00	$\triangle$	1/1	