





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(DC OR 1000Hz)	30 mΩ MAX.	x	—
INSULATION RESISTANCE		500 V DC	100 MΩ 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 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 ~ 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	—
RESISTANCE TO SOLDERING HEAT		EXPOSE 2 TIMES AT SPECIFIED TEMPERATURE PROFILE.	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-00011936	HK. WATANABE	MH. YAMAGUCHI	20211111
REMARK			APPROVED	KI. HIROKAWA	20200406
(NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.			CHECKED	MO. OKADA	20200406
(NOTE2) APPLICABLE BOARD : 0.8 mm			DESIGNED	HK. WATANABE	20200406
(NOTE3) CONTACT RESISTANCE OF OUTER CONDUCTOR AFTER ENVIRONMENTAL AND DURABILITY TEST SHALL BE 120mΩ MAX.			DRAWN	YK. MITSUISHI	20200403
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-169969-55-00
	SPECIFICATION SHEET		PART NO.	GT21T-1P-H (C) (55)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0771-0067-6-55	 1/1