

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.		SIGNAL: 30 mΩ MAX, SHIELD: 60 mΩ MAX.		x -
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 0.1 mA(DC OR 1000Hz)		SIGNAL: 30 mΩ MAX, SHIELD: 60 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		BY STEEL GAUGE, —.		INSERTION FORCE — N MAX. EXTRACTION FORCE — N MIN.		- -
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① SIGNAL:30mΩ MAX, SHIELD:60mΩ 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 SIGNAL:30mΩ MAX, SHIELD:60mΩ 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 SIGNAL:30mΩ MAX, SHIELD:60mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
LOCK STRENGTH		APPLYING A PULL FORCE THE MATING AXIALLY AT 78.4N 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 SIGNAL:60mΩ MAX, SHIELD:120mΩ 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 SIGNAL:60mΩ MAX, SHIELD:120mΩ 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 SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
COLD		EXPOSED AT -55°C , 120 h.		① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x -
RESISTANCE TO SO ₂ GAS		EXPOSED IN 500 PPM FOR 8h.		① SIGNAL:60mΩ MAX, SHIELD:120mΩ MAX. ② NO HEAVY CORROSION.		x -
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260 °C REFLOW 2 TIMES		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		x -
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED
△						DATE
REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	KI. HIROKAWA	20200326
				CHECKED	EJ. WAKATSUKI	20200325
				DESIGNED	TS. KUBOTA	20200325
				DRAWN	YK. MITSUISHI	20200219
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-166354-55-00
HRS	SPECIFICATION SHEET			PART NO.	GT17H-4P-2H (55)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL767-0083-3-55	△ 1/1