

APPLICABLE STANDARD		SPECIFICATIONS					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C ⁽¹⁾			
	VOLTAGE	△ 60 V AC/DC	STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX (NOT DEWED)			
	CURRENT	2 A					
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.		10 mΩ MAX.		— —		
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	10 mV AC MAX, 0.1 mA(DC OR 1000Hz)		10 mΩ MAX.		— —		
INSULATION RESISTANCE	500 V DC.		100 MΩ MIN.		x —		
VOLTAGE PROOF	1000 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		— —		
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
VIBRATION	FREQUENCY 20 TO 200Hz (88m/s ²) SWEEP TIME 3min.(ROUND TRIP) AT 3h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② CONTACT RESISTANCE: 20 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
SHOCK	981m/s ² DURATION OF PULSE 6ms AT 3 TIMES FOR 6 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.		① 100 N MIN		x —		
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 20 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE- 40 → ROOM TEMP → 125°C → ROOM TEMP TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
DRY HEAT	EXPOSED AT 140°C, 120 h.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
COLD	EXPOSED AT -40°C, 120 h.		① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x —		
RESISTANCE TO SO ₂ GAS	EXPOSED IN 25 PPM AT 75% MIN FOR 96h.		① CONTACT RESISTANCE: 20 mΩ MAX.		— —		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△ 1	DIS-T-00006021		YH. MAMADA	HH. TSUKUMO	20200403		
REMARK (NOTE1) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.				APPROVED	HK. UMEHARA		
				CHECKED	HH. TSUKUMO		
				DESIGNED	YH. MAMADA		
				DRAWN	YH. MAMADA		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.			
		SPECIFICATION SHEET	PART NO.	ZE05-5S-HU/R			
		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL752-2211-0-00	△ 1/1		