





APPLICABLE STANDARD						
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		
	CURRENT	2 A		(NOT DEWED)		
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.		10 mΩ MAX .	x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		10 mV AC MAX, 0.1 mA(DC OR 1000Hz)		10 mΩ MAX .	x	—
INSULATION RESISTANCE		500 V DC.		100 MΩ MIN.	x	—
VOLTAGE PROOF		1000 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	x	—
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 100N 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.	x	—
RESISTANCE TO SOLDERING HEAT		REFLOW TEMP. OVER 260°C , 10sec. PREHEAT 180°C MAX , 120sec.		NO PLATING PEELING OF THE TERMINALS, MELTINGS OF HOUSINGS.	x	—
SOLDERABILITY		SOLDERED AT SPECIFIED TEMPERATURE PROFILE.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
	1	DIS-T-00006023	YH. MAMADA	HH. TSUKUMO	20200407	
REMARK (NOTE1) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			APPROVED	HK. UMEHARA	20180907	
			CHECKED	HH. TSUKUMO	20180907	
			DESIGNED	YH. MAMADA	20180907	
			DRAWN	YH. MAMADA	20180907	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-384366-00-00	
	SPECIFICATION SHEET		PART NO.	ZE05-5P-2H		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL752-2121-0-00		1/1