

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		10 mV AC MAX, 0.1 mA(DC OR 1000Hz)	10 mΩ MAX .	x	—
MILLIVOLT LEVEL METHOD					
INSULATION RESISTANCE		500 V DC.	100 MΩ MIN.	x	—
VOLTAGE PROOF		1000 V AC FOR 1 min.	NO 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 x	— —
VIBRATION		FREQUENCY 20 TO 200Hz (44m/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 x 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 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 x 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 x	— —
DRY HEAT		EXPOSED AT 140°C, 120 h.	① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x x	— —
COLD		EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x 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 250°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
△					
REMARK			APPROVED	MH. SHOUJI	20221110
(NOTE1) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.			CHECKED	MH. SHOUJI	20221110
			DESIGNED	YANG CHUAN XING	20221110
			DRAWN	YANG CHUAN XING	20221110
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-388384-80-00
HRS	SPECIFICATION SHEET		PART NO.	ZH05-20DS-2H (A)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0756-2102-0-80	△ 1/1