

APPLICABLE STANDARD		SPECIFICATIONS					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +125 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C <sup>(1)</sup>			
	VOLTAGE	60 V AC/DC	STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX			
	CURRENT	2 A		(NOT DEWED)			
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 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 (44m/s <sup>2</sup> ) 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 <sup>2</sup> 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 <sub>2</sub> 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 IMMERSED.		x	-	
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
0							
REMARK					APPROVED	AH. EDASHIGE	20211026
(NOTE1) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.					CHECKED	AH. EDASHIGE	20211026
					DESIGNED	KH. MARUNO	20211025
					DRAWN	YANG CHUAN XING	20211025
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-394746-00-00		
	SPECIFICATION SHEET			PART NO.	ZH05-24DS-2H (A)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0756-2108-0-00	1/1	