

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 .		—	—
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 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 (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	— — —
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 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
	5	DIS-T-00011473		AN. SAIKI		KH. MARUNO	20211008
REMARK				APPROVED	OM. MIYAMOTO	20191219	
(NOTE1) "STORAGE" means a long-term storage state for the unused product.				CHECKED	OM. MIYAMOTO	20191219	
				DESIGNED	KH. MARUNO	20191219	
				DRAWN	KH. MARUNO	20191219	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-390115-00-00	
	SPECIFICATION SHEET			PART NO.	ZH05-20DP-HU (A)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL0756-2204-0-00  1/1		