

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.		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 IMMERSED.		X	—		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED		CHECKED	DATE		
3 1	DIS-T-00013884	TY. IKEDA		HH. TSUKUMO	20220516		
REMARK (NOTE) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.				APPROVED	HK. UMEHARA		
				CHECKED	HK. UMEHARA		
				DESIGNED	TY. ISHIGURO		
				DRAWN	MN. SATOH		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.			
				ELC-376503-00-00			
	SPECIFICATION SHEET		PART NO.	ZE05H-4P-2V 3			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0752-2310-0-00			
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