

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +120 °C		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C ⁽¹⁾		
	CURRENT	30 A		STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 85% MAX		
	VOLTAGE	600 V AC/DC			(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		10 A DC.		3 mΩ MAX.		x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 10 mA(DC OR 1000Hz)		3 mΩ MAX.		x	—
INSULATION RESISTANCE		1000 V DC.		100 MΩ MIN.		x	—
VOLTAGE PROOF		2200 V AC FOR 1 min. 		NO BREAKDOWN 		x	—
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION		30 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
VIBRATION		FREQUENCY 20 TO 400Hz (43.1m/s ²) SWEEP TIME 3min.(ROUND TRIP) AT 3h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② CONTACT RESISTANCE: 5 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
LOCK STRENGTH		MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.		98N MIN.		x	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 60 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 5 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 →120°C→ROOM TEMP TIME 30 → 5 → 30 → 5 min UNDER 100 CYCLES.		① CONTACT RESISTANCE: 5 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
DRY HEAT		EXPOSED AT 125°C, 300 h.		① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	—
COLD		EXPOSED AT -40°C , 120 h.		① CONTACT RESISTANCE: 5 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.		CONTACT RESISTANCE: 5 mΩ MAX.		x	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	
	2	DIS-T-00019962		YT. TAKANASHI		TY. MOGI	
REMARK				APPROVED		HK. UMEHARA	
(NOTE1) "STORAGE" means a long-term storage state for the unused product.				CHECKED		AH. EDASHIGE	
				DESIGNED		TS. SHIMIZU	
				DRAWN		DS. HIROWATARI	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-382041-00-00	
		SPECIFICATION SHEET		PART NO.		HVH-280-2S-HU	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL0778-0704-0-00  1/1	