

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		2500 V AC FOR 1 min.		NO FLASHOVER OR 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 — 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 — x — 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 — x — 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 — x — x —
DRY HEAT		EXPOSED AT 125°C, 300 h.		① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x — x —
COLD		EXPOSED AT -40°C , 120 h.		① CONTACT RESISTANCE: 5 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.		CONTACT RESISTANCE: 5 mΩ MAX.	x —
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	HK. UMEHARA	20180928
NOTE1) "STORAGE" means a long-term storage state for the unused product.			CHECKED	AH. EDASHIGE	20180928
			DESIGNED	TS. SHIMIZU	20180928
			DRAWN	DS. HIROWATARI	20180926
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-382041-00-00
HRS	SPECIFICATION SHEET		PART NO.	HVH-280-2S-HU	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL778-0704-0-00	△ 1/1