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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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		-
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	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