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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 (NOT DEWED)
	VOLTAGE	600 V AC/DC		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	10A DC.	POWER:3mΩ/SIGNAL:10mΩ /SHIELD:50mΩ MAX.	×	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 10mA(DC OR 1000Hz)	POWER:3mΩ/SIGNAL:10mΩ /SHIELD:50mΩ MAX.	×	—
INSULATION RESISTANCE	1000 V DC.	100 MΩ MIN.	×	—
VOLTAGE PROOF	2500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× ×	— —
VIBRATION	FREQUENCY 20 TO 200Hz (88m/s²) SWEEP TIME 3min.(ROUND TRIP) AT 3h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 7ΩMIN , 1μs MIN. ② CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× × ×	— — —
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.	98N MIN.	×	—
DESTRUCTION TORQUE	WHEN ACTUAL MEASURED PANEL, PLEASE TIGHTEN A SCREW. M4 SCREW BE USED, 2.88N・m(MAX)	WITHOUT DESTRUCTION	×	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 85 °C, 90 ～ 95 %, 96 h.	① CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20MωmaxMax ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× × ×	— — —
RAPID CHANGE OF TEMPERATURE	TEMPERATURE- 40 →ROOM TEMP →120°C→ ROOM TEMP TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES.	① CONTACT RESISTANCE: POWER:5 mΩ MAX. ② INSULATION RESISTANCE:100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× × ×	— — —
DRY HEAT	EXPOSED AT 125°C, 300 h.	① CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× ×	— —
COLD	EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× ×	— —
RESISTANCE TO SO_2 GAS	EXPOSED IN 25 PPM AT 75% MIN FOR 96h.	CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX	×	—
WATERPROOFNESS	SINKING TO WATER AFTER EXPOSED AT 125℃ WITH CONNECTORS MATED AND ATTACHED TO RECOMMENDED PANEL.	NO WATER IS INSIDE THE CONNECTOR.	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARK
(NOTE1) "STORAGE" means a long-term storage state for the unused product.

APPROVED	HK. UMEHARA	20180928
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-377226-00-00

HRS	SPECIFICATION SHEET	PART NO.	HVH-280-2/2P-HU(A)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL778-0510-0-00 △0	1/1

FORM HD0011-2-1