






Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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.	x	x
MARKING		CONFIRMED VISUALLY.		x	x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE		10A DC. 	POWER:3mΩ/SIGNAL:10mΩ /SHIELD:50mΩ MAX.	x	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV AC MAX, 10mA(DC OR 1000Hz) 	POWER:3mΩ/SIGNAL:10mΩ /SHIELD:50mΩ 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: POWER:5mΩMAX/SIGNAL:20mΩMAX 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: POWER:5mΩMAX/SIGNAL:20mΩMAX 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 85 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX 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 1000 CYCLES.	① CONTACT RESISTANCE: POWER: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: POWER:5mΩMAX/SIGNAL:20mΩMAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
COLD		EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
RESISTANCE TO SO ₂ GAS		EXPOSED IN 25 PPM AT 75% MIN FOR 96h.	CONTACT RESISTANCE: POWER:5mΩMAX/SIGNAL:20mΩMAX	x	—
WATERPROOFNESS		SINKING TO WATER AFTER EXPOSED AT 125°C WITH CONNECTORS MATED AND ATTACHED TO RECOMMENDED PANEL.	NO WATER IS INSIDE THE CONNECTOR.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	2	DIS-T-00003861	TS. SHIMIZU	AH. EDASHIGE	20180928
REMARK			APPROVED	HK. UMEHARA	20171129
(NOTE1) "STORAGE" means a long-term storage state for the unused product.			CHECKED	HK. UMEHARA	20171129
			DESIGNED	KO. NAKAMURA	20171129
			DRAWN	MN. SATOH	20171129
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-369972-00-00
	SPECIFICATION SHEET		PART NO.	HVH-280-2/2S-HU	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL778-0504-0-00	 1/1