Sep.1.2025 Copyright 2025 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 (2)	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.		×	×
△2 **ELECTRICAL CHARACTERISTICS**				
CONTACT RESISTANCE	10 A DC.	3 mΩ MAX.	×	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV AC MAX, 10 mA(DC OR 1000Hz)	3 mΩ MAX.	×	—
INSULATION RESISTANCE	1000 V DC.	100 MΩ MIN.	×	—
VOLTAGE PROOF	2200 V AC FOR 1 min.	NO BREAKDOWN	×	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× ×	— —
VIBRATION	FREQUENCY 20 TO 400Hz (43.1m/s²) 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.	× × ×	— — —
LOCK STRENGTH	MEASURE BREAK STRENGTH OF THE LOCK BY PULLING THE CONNECTOR IN THE MATING DIRECTION.	110N MIN. △2	×	—
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.	× × ×	— — —
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.	× × ×	— — —
DRY HEAT	EXPOSED AT 125°C, 300 h.	① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× ×	— —
COLD	EXPOSED AT -40°C , 120 h.	① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	× ×	— —
RESISTANCE TO SO_2 GAS	EXPOSED IN 25 ppm AT 75% MIN FOR 96h.	CONTACT RESISTANCE: 5 mΩ MAX.	×	—
△2 RESISTANCE TO SOLDERING HEAT	SOLDERED AT SOLDER TEMPERATURE 260℃ FOR 10s.	NO PLATING PEELING OF THE TERMINALS, MELTINGS OF HOUSINGS.	—	—
△2 SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 245℃ FOR 3s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	—	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△2	5	DIS-T-00024017	AN. SAIKI	TY. MOGI	20250519

REMARK
(NOTE1) "STORAGE" means a long-term storage state for the unused product.
(NOTE2) Include the temperature rising by current. △2

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-374381-00-00

HRS	SPECIFICATION SHEET	PART NO.	HVH-280-3P/S-R	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0778-0702-0-00 △2	1/1

FORM HD0011-2-1