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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 (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.	x	x
MARKING	CONFIRMED VISUALLY.			x	x
ELECTRICAL 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	2200 V AC FOR 1 min.		NO 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.		110N MIN. △2	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	-
RESISTANCE TO SOLDERING HEAT	SOLDERED AT SOLDER TEMPERATURE 260°C FOR 10s. △2		NO PLATING PEELING OF THE TERMINALS, MELTINGS OF HOUSINGS.	x	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 245°C FOR 3s. △2		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△2	5	DIS-T-00024017	AN. SAIKI	TY. MOGI	20250519
REMARK			APPROVED	HK. UMEHARA	20180928
(NOTE1) "STORAGE" means a long-term storage state for the unused product.			CHECKED	AH. EDASHIGE	20180928
(NOTE2) Include the temperature rising by current. △2			DESIGNED	TS. SHIMIZU	20180928
			DRAWN	DS. HIROWATARI	20180926
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-374379-00-00	
HRS	SPECIFICATION SHEET		PART NO.	HVH-280-3P-6. 5DS	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0778-0700-0-00	△2 1/1