

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		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 — 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 — x — 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 — x — 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 — x — x —
DRY HEAT		EXPOSED AT 125°C, 300 h.		① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x — x —
COLD		EXPOSED AT -40°C , 120 h.		① CONTACT RESISTANCE: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x — x —
RESISTANCE TO SO ₂ GAS		EXPOSED IN 25 PPM AT 75% MIN FOR 96h.		① CONTACT RESISTANCE: 5 mΩ MAX.		x —
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, 260°C FOR IMMERSION,DURATION,10s..		NO PLATING PEELING OF THE TERMINALS, MELTINGS OF HOUSINGS.		x —
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE 245°C FOR IMMERSION DURATION, 3s.		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	DIS-T-00019962	YT. TAKANASHI	TY. MOGI	20240124	
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-374379-00-00	
	SPECIFICATION SHEET		PART NO.	HVH-280-3P-6. 5DS		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0778-0700-0-00		1/1