

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +120 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C <sup>(1)</sup>	
	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	20 mV AC MAX, 10 mA(DC OR 1000Hz)		3 mΩ MAX.		x —
MILLIVOLT LEVEL METHOD					
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: 5 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x x —
VIBRATION	FREQUENCY 20 TO 400Hz (43.1m/s <sup>2</sup> ) 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 —
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 —
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 —
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 <sub>2</sub> 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
					
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-374379-00-00
	SPECIFICATION SHEET		PART NO.	HVH-280-3P-6. 5DS	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL778-0700-0-00	 1/1