

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		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	—
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.	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	—
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.	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 IMMERSSED.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
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.	CL778-0700-0-00	△	1/1