

APPLICABLE STANDARD		UL, C-UL TUV STANDARD (Plan)			
Rating	Operating Temperature Range	-40 °C to +105 °C (Note 1)	Storage Temperature Range	-40 °C to +60 °C (Note 2)	
	Voltage	AC/DC 1500V	Current	125A	
			Applicable Wire	38sq	
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	DC 1 A		0.3 mΩ max.	X	—
Insulation Resistance	250 V DC		5000 MΩ min.	X	—
Voltage Proof	2000 V AC. for 1 min.		No flashover or breakdown.	X	—
MECHANICAL CHARACTERISTICS					
Mating and Unmating Forces	Measured by applicable connector at a speed of 30 mm ± 3 mm/min.		Mating force : 49 N max.	X	—
			Unmating force : 49 N max.	X	—
Mechanical Operation	100 times insertions and extraction at speed of 600 times/hour.		① Contact resistance : 0.5 mΩ max. ② No damage, crack and looseness of parts.	X	—
Vibration	Frequency : 10 to 55 Hz, single amplitude 0.75 mm, at 5 min/cycle, 10 cycles each in 3 axis directions. 30 cycles in TOTAL.		① No electrical discontinuity of 10 μs. ② No damage, crack and looseness of parts.	X	—
Shock	490 m/s ² duration of pulse 11 ms at 3 times for 3 both axial directions.			X	—
ENVIRONMENTAL CHARACTERISTICS					
Rapid Change Of Temperature	Temperature -40 → 105 °C Time 30 → 30 min Chamber transfer time is 2 to 3 min. Conduct 5 cycles of above cycles(mated) and exposed in the room temperature for 1 to 2 hours.		① Contact resistance : 0.5 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Humidity Life	After exposure at temperature 40±2 °C, humidity 90 to 95 %, for 96 h. (mated), exposed at room temperature for 1 to 2 hour.		① Contact resistance : 0.5 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Heat	After exposure at temperature 105±2 °C, humidity for 96 h(mated), exposed at room temperature for 1 to 2 hour.		① Contact resistance : 0.5 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Cold	After exposure at -40±2 °C, 96 h. (mated) Exposed at room temperature for 1 to 2 hour.		① Contact resistance : 0.5 mΩ max. ② Insulation resistance : 1000 MΩ min. ③ No damage, crack and looseness of parts.	X	—
Corrosion Salt Mist	After exposure in 35±2°C, 5±1% salt water spray for 48±4 h(mated), washed with water, dried at normal temperature and humidity for 24 hours.		No heavy corrosion that lose function.	X	—
(Note 1) Storage temperature range shows storage condition for unused products including packing materials. Follow the operating temperature range for storage condition after mounting. (Note 2) The operation temperature includes the temperature rise by current carrying.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARK			APPROVED	NM. NISHIMATSU	17. 04. 19
			CHECKED	NM. NISHIMATSU	17. 04. 19
			DESIGNED	MO. SHIMOYAMA	17. 04. 19
			DRAWN	MO. SHIMOYAMA	17. 04. 19
Unless otherwise specified, refer to IEC60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-129069-00-00	
HRS	SPECIFICATION SHEET		PART NO.	PS3CS-A-1UP	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL236-1076-0-00	△ 1/1