

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 <sup>2</sup> duration of pulse 11 ms at 3 times for 3 both axial directions.				
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	RI. TAKAYASU	20181016	
			CHECKED	AH. KODAMA	20181016	
			DESIGNED	TS. ITO	20181016	
			DRAWN	TS. ITO	20181016	
Unless otherwise specified, refer to IEC60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-129067-10-00		
HRS	SPECIFICATION SHEET		PART NO.	PS3CS-A-1US (10)		
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL236-1074-0-10	△	1/1