

Applicable standard							
Rating	Operating temperature range	-40°C to +105°C (Note1)	Storage Temperature range		-10°C to +60°C (Note3)		
	Operating humidity range	20% to 80% (Note2)	Storage humidity range		40% to 70% (Note3)		
	Applicable connector	DF59-4S-2V(**)	Current		3A/pin		
			Voltage	Specification	230V AC/DC		
				UL/C-UL	29.9V AC/DC		
			TUV	TBD			
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		DC 6V MAX, 100mA. (DC or 1000 Hz).		50 mΩ MAX.		X	—
Mechanical characteristics							
Mechanical operation		10 times insertion and extraction.		① 50 mΩ MAX. ② No damage, crack or looseness of parts.		X	—
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.		① No electrical discontinuity of 1 μ s. ② No damage, crack or looseness of parts.		X	—
Shock		490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.		① No electrical discontinuity of 1 μ s. ② No damage, crack or looseness of parts.		X	—
Environmental characteristics							
Damp heat (Steady state)		Exposed at 40 ± 2 °C, 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2 h.)		① 50 mΩ MAX. ② Insulation resistance: 1000MΩ MIN. ③ No damage, crack or looseness of parts.		X	—
Rapid change of temperature		Temperature -55 °C→ +85 °C Time 30 min→ 30 min Under 5 cycles. (The transferring time of the tank is 2 to 3 min) (After leaving the room temperature for 1 to 2 h.)		① 50 mΩ MAX. ② Insulation resistance: 1000MΩ MIN. ③ No damage, crack or looseness of parts.		X	—
Remarks							
Note 1: Include the temperature rising by current.							
Note 2: No condensing.							
Note 3: Apply to unused product on packaged condition.							
	Count	Description of revisions	Designed		Checked	Date	
△ 0							
Unless otherwise specified, refer to IEC 60512.				Approved	SJ. OKAMURA	20210823	
				Checked	SZ. ONO	20210823	
				Designed	HK. HAYASHI	20210823	
				Drawn	TS. HONJO	20210820	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-359025-50-01		
HRS	Specification sheet		Part no.		DF59-4P-2SP (50)		
	Hirose electric co., Ltd.		Code no.		CL0667-0046-9-50	△	1/1