





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	DF59-3S-2V(**) DF59-2S-4V(**)	Current		3A	
			Voltage	Specification	AC/DC 230V	
				UL/C-UL	AC/DC 29.9V	
	TÜV	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						
Insulation resistance		500V DC.		1000MΩ MIN.		X —
Voltage proof		650V AC FOR 1 min.		No flashover or breakdown.		X —
Mechanical characteristics						
Mechanical operation		30 times insertion and extraction.		No damage, crack or looseness of parts.		X —
Vibration		Frequency 10 to 55Hz, single amplitude 0.75mm, at 10cycles for 3direction.		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.				X —
Environmental characteristics						
Damp heat (Steady state)		Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1—2h.)		①Insulation resistance: 1000MΩ MIN. ②No damage, crack or looseness of parts.		X —
Rapid change of temperature		Temperature -55°C→ +85°C Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2—3 min) (After leaving the room temperature for 1—2h.)				X —
Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation.						
	Count	Description of revisions	Designed	Checked	Date	
	1	DIS-H-00002838	TS. KUMAZAWA	TS. FUKUSHIMA	17. 05. 30	
Remarks				Approved	KT. AKIYAMA	10. 09. 29
				Checked	OM. MIYAMOTO	10. 09. 29
				Designed	KT. ISHII	10. 09. 29
				Drawn	KT. ISHII	10. 09. 29
Unless otherwise specified, refer to IEC60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-331127-00-01	
	Specification sheet		Part no.	DF59-3P-2C		
	Hirose electric co., ltd.		Code no.	CL667-0012-7-00		1/1