






Applicable standard					
Rating	Operating Temperature Range	-55 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)
	Voltage	630 V AC/DC		Applicable Connector	DF63-4S-3.96C
	Current	AWG #16 : 10A AWG #18 : 8A AWG #20 : 7A AWG #22 : 6A		Applicable Contact	DF63-1618PC * DF63-2022PC *
		Rated Voltage	Rated Current	Overvoltage Category	IP-Degree
 UL, C-UL		600V AC/DC	See above	-	-
 TÜV		300V AC/DC	See above	II	IP00
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		500 V DC.		1000 MΩ MIN.	X —
Voltage Proof		1500 V 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 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.			X —
Shock		Acceleration 490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.			X —
Environmental Characteristics					
Damp Heat (Steady State)		Exposed at 40 ± 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)		1. Insulation resistance: 500 MΩ MIN. 2. No 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 to 3 MIN) (After leaving the room temperature for 1 to 2h.)		1. Insulation resistance: 1000 MΩ MIN. 2. No damage, crack or looseness of parts.	X —
Remarks Note 1: Include the temperature rising by current. Note 2: No condensing Note3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB board , operating temperature and humidity range is applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
	2	DIS-H-00004229	TS. KUMAZAWA	SZ. ONO	20180925
Unless otherwise specified, refer to IEC 60512.				Approved	KI. AKIYAMA 20160415
				Checked	TS. FUKUSHIMA 20160414
				Designed	YK. YAMAGUCHI 20160414
				Drawn	YK. YAMAGUCHI 20160414
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.		ELC-365618-00-00
	Specification sheet		Part no.	DF63-4EP-3. 96C	
	Hirose electric co., Ltd.		Code no.	CL680-0552-0-00	 1/1