






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 Connectors	DF65-3P-1.7V(##)	UL Rating 	Voltage	50 V AC/DC
	Applicable Contact	DF65-2428SCF(##) DF65-2428SCFA(##)		Current	24 AWG : 5.0A 26 AWG : 4.0A 28 AWG : 4.0A
	Voltage	50 V AC/DC	C-UL Rating 	Voltage	50 V AC/DC
	Current	24 AWG : 4.0A 26 AWG : 2.5A 28 AWG : 2.5A		Current	24 AWG : 5.0A 26 AWG : 3.3A 28 AWG : 3.3A
Specifications					
Item	Test method	Requirements	QT	AT	
<b>Construction</b>					
General examination	Visually and by measuring instrument.	According to drawing.	X	X	
Marking	Confirmed visually.		X	X	
<b>Electric characteristics</b>					
Insulation resistance	100 V DC.	100 MΩ MIN.	X	—	
Voltage proof	500 V AC for 1 min.	No flashover or breakdown.	X	—	
<b>Mechanical characteristics</b>					
Mechanical operation	Tin plated : 30 times insertion and extraction. Gold plated : 50 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	490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for 3 both axial directions.		X	—	
<b>Environmental characteristics</b>					
Damp heat (Steady state)	Exposed at 40 ± 2°C , 90 to 95 % , 96 h. (After leaving the room temperature for 1~2h.)	①Insulation resistance: 100 MΩ MIN. ②No damage, crack or looseness of parts.	X	—	
Rapid change of temperature	Temperature -55°C→ +105°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, operating temperature and humidity range are applied for interim storage during transportation.					
	Count	Description of revisions	Designed	Checked	Date
	2	DIS-H-00004782	SN. MIWA	SZ. ONO	20190416
Remarks			Approved	KI. AKIYAMA	20131220
			Checked	OM. MIYAMOTO	20131220
Unless otherwise specified, refer to IEC 60512.			Designed	TT. OHSAKO	20131220
			Drawn	TT. OHSAKO	20131220
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.		ELC4-351453-00
	Specification sheet		Part No.	DF65-3S-1.7C	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL666-6005-8-00	 1/1