Applicable standard						
Rating	Operating temperature range △3	-55 °C to +105°C (Note1)	Current	Contact	AWG 16:	AWG 18
	Operating Humidity range	20% to 80% (Note2)		1	15A	13A
	Storage temperature range	-10 °C to +60°C (Note3)		2	14A	12A
	Storage Humidity range	40% to 70% (Note3)		3	12A	10A
	Applicable connector	DF63-*P-3.96DS*		4	10A	8A
	Applicable contact	DF63-1618SC*		5	10A	8A
	Voltage	AC/DC 630V		6	10A	8A

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	20mV MAX, 1mA (DC or 1000Hz).	10 mΩ MAX.	X	—
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.	①Contact resistance: 20 mΩ MAX. ②No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	①No electrical discontinuity of 1 μs. ②No damage, crack or looseness of parts.	X	—
Shock	490 m/s^2 duration of pulse 11 ms at 3 times each for 3 both axial directions.	①No electrical discontinuity of 1 μs. ②No damage, crack or looseness of parts.	X	—
Environmental characteristics				
Damp heat (steady state)	Exposed at 40 ± 2℃ , 90 to 95 %, 96 h. (After leaving the room temperature for 1 - 2h.)	①Contact resistance: 20 mΩ MAX. ②Insulation resistance: 500 MΩ MIN ③No damage, crack or looseness of parts.	X	—
Rapid change of temperature	Temperature -55℃→ +85℃ Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2 - 3 min) (After leaving the room temperature for 1 - 2h.)	①Contact resistance: 20 mΩ MAX. ②Insulation resistance: 1000 MΩ MIN ③No damage, crack or looseness of parts.	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 PCB on board. After PCB on board, operating temperature and humidity range is applied for interim storage during transportation.

	Count	Description of revisions	Designed	Checked	Date
△3	1	DIS-H-00002332	MI.SAKIMURA	TS.FUKUSHIMA	16.11.29

REMARKS			
	Approved	KI.AKIYAMA	13.09.11
	Checked	OM.MIYAMOTO	13.09.10
	Designed	TO.HORII	13.09.10
Unless otherwise specified, refer to IEC 60512.	Drawn	TO.HORII	13.09.10

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing no.	ELC-354067-00-00

HRS	Specification sheet	Part no.	DF63-*S-3.96C		
	Hirose electric co., ltd.	Code no.	CL680-	△3	1/1

FORM HD0011-2-1