Applicable standard				
Rating	Operating Temperature Range	-40 to +105 °C (Note 1)	Storage Temperature Range	-10 °C to +60 °C (Note 3)
	Operating Humidity Range	20% to 80% (Note 2)	Storage Humidity Range	40 % to 70 % (Note 3)
	Voltage	630 V AC/DC	Applicable Connector	DF63-6S-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
⚠1 UL,C-UL	600V AC/DC	See above	-	-
⚠1 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				
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.	No damage, crack or looseness of parts.	X	—
Shock	Acceleration 490 m/s^2 duration of pulse 11 ms at 3 times for 3 directions.	No damage, crack or looseness of parts.	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 2 h.)	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 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.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.
Note 3: 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
⚠1	2	DIS-H-00004236	TS.KUMAZAWA	SZ.ONO	20180925

APPROVED	KI.AKIYAMA	20151026
CHECKED	TS.FUKUSHIMA	20151026
DESIGNED	YK.YAMAGUCHI	20151026
DRAWN	HK.HAYASHI	20151026

Unless otherwise specified, refer to IEC 60512.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-365920-00-00

HRS	SPECIFICATION SHEET	PART NO.	DF63A-6EP-3.96C	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL680-0558-0-00	⚠1 1/1

FORM HD0011-2-1