


Applicable standard				
Rating	Operating temperature range 	-55 °C 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)
	Applicable connector	DF63- * S-3.96C	Voltage	AC/DC 630 V
	Applicable cable	UL1015 AWG #16 to 18 UL1007 AWG #16 to 18	Current	AWG #16 : 15 A/pin AWG #18 : 13 A/pin

### Specifications

Item	Test method	Requirements	QT	AT
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#### Construction

General examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		X	X

#### Electric characteristics

Contact resistance	20 mV MAX, 1 mA (DC or 1000 Hz).	10 mΩ MAX.	X	-
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#### Mechanical characteristics

Contact insertion and extraction forces	<input type="checkbox"/> 1.14±0.002 mm by steel gauge.	Insertion force 10 N MAX. Extraction force 0.3 N MIN.	X	-
Mechanical operation	50 times insertion and extraction.	1) Contact resistance: 20 mΩ MAX. 2) 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.	1) No electrical discontinuity of 1 μs. 2) No damage, crack or looseness of parts.	X	-
Shock	490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for 3 both axial 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 to 2 h.)	1) Contact resistance: 20 mΩ MAX. 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.)		X	-

Remarks

Note 1:Including the temperature rising by current.



Note 2:No condensing

Note 3:Apply to unused product on packaged condition.

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
 1	DIS-H-00009798	TS. KUMAZAWA	SZ. ONO	20210616

Unless otherwise specified, refer to IEC 60512.	APPROVED	SJ. OKAMURA	20210513
	CHECKED	SZ. ONO	20210513
	DESIGNED	TS. KUMAZAWA	20210513
	DRAWN	TS. KUMAZAWA	20210513

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-393067-00-00
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	SPECIFICATION SHEET	PART NO.	DF63A-1618SCA	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0680-0650-0-00	 1/1