

May.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

Applicable standard					
Rating	Operating Temperature Range	-55 to +105℃ (Note1)	Storage Temperature Range	-10℃ to +60℃ (Note3)	
	Operating Humidity Range	20% to 80% (Note2)	Storage Humidity Range	40% to 70% (Note3)	
	Voltage	630V AC/DC	Applicable Connector	DF63-3S-3.96C	
	Current	AWG 16 : 12A/pin AWG 18 : 10A/pin AWG 20 : 8A/pin AWG 22 : 7A/pin	Applicable Contact	DF63-1618PC(F)(A) DF63-2022PC(F)(A)	
UL,C-UL		Rated Voltage 600V AC/DC	Rated Current See above	Overvoltage Category -	IP-Degree -
TUV		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		500V DC.		1000 MΩ MIN.	X -
Voltage Proof		1500V 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.		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 ℃ , 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℃ → +85℃ 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 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 unused product on packaged condition.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①	1	DIS-H-00010586	TS. KUMAZAWA	SZ. ONO	20210826
Unless otherwise specified, refer to IEC 60512.				APPROVED	20210825
				CHECKED	20210825
				DESIGNED	20210825
				DRAWN	20210824
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-361667-00-00
HRS	SPECIFICATION SHEET		PART NO.	DF63A-3EP-3. 96C	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0680-0534-2-00	① 1/1