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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	-40 °C to +85°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)	
	Voltage	100V AC/DC			Applicable Connector	DF52#-*S-0.8H	
	Current ⚠1	Number of contacts	AWG28	AWG30	AWG32	Applicable contact	DF52-2832PCF ⚠1
		2	2.5A	2.0A	1.5A		
		3-5	2.0A	1.5A	1.0A		
		6-10	1.5A	1.2A	0.8A		
		12-20	1.2A	1.0A	0.8A		

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				
Insulation resistance	100 V DC.	100 MΩ MIN.	X	–
Voltage proof	300 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	490 m/s^2 duration of pulse 11 ms at 3 times each for 3 both axial directions.	No 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.)	①Insulation resistance: 100 MΩ MIN. ②No 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.)	①Insulation resistance: 100 MΩ MIN. ②No 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 strage during transportation.

	Count	Description of revisions	Designed	Checked	Date
⚠1	2	DIS-H-009224	TH. YOSHIZAWA	HK. UMEHARA	14. 11. 20

Remarks

Unless otherwise specified, refer to IEC 60512.

Approved	KI. AKIYAMA	14. 06. 27
Checked	HK. UMEHARA	14. 06. 27
Designed	TH. YOSHIZAWA	14. 06. 26
Drawn	TH. YOSHIZAWA	14. 06. 26

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

Drawing No. ELC4-356518-00

HRS	Specification sheet	Part No.	DF52-*P-0.8C	
	HIROSE ELECTRIC CO., LTD.	Code No.	CL668- ⚠1	1/1

FORM HD0011-2-1