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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	-55°C to + 85°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	1000V AC/DC				Applicable contact ⚠4	DF22(A)-1416SC(F)A DF22A-1012SC(F)A			
	Current (*1) rating	Contact	1	2,3	4,5	Current (*2) rating of UL standards (At ambient temp.25℃) (Note 4)	Contact	1	2,3	4,5
		AWG10	30A/pin	25A/pin	22A/pin		AWG10	43A/pin	38A/pin	33A/pin
		AWG12	25A/pin	20A/pin	18A/pin		AWG12	38A/pin	32A/pin	26A/pin
		AWG14	20A/pin	18A/pin	15A/pin		AWG14	26A/pin	23A/pin	22A/pin
		AWG16	15A/pin	15A/pin	13A/pin		AWG16	21A/pin	21A/pin	19A/pin

	Voltage Rating	Current Rating	Overvoltage Category	IP- Degree
UL	600V AC/DC	See table above right (*2)	—	—
C-UL	600V AC/DC	See table above left(*1) (Temp.rise up 30℃MAX)	—	—
TUV	600V AC/DC	See table above left(*1)	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	1000V DC.	1000MΩ MIN.	X	—
Voltage proof	2500V AC for 1 min.	No flashover or breakdown.	X	—
Mechanical characteristics				
Mechanical operation	30 times insertions and extractions.	No damage, crack or looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions.		X	—
Shock	490 m/s^2 duration of pulse 11 ms at 3 times for 3 directions.		X	—
Environmental characteristics				
Rapid change of temperature	Temperature -55→ 5 to 35→+85→ 5 to 35 °c Time 30→ 5 max → 30→ 5 max min Under 5 cycles.	① Insulation resistance: 1000MΩ MIN. ② No damage, crack or looseness of parts.	X	—
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.	① Insulation resistance: 500MΩ 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:Applicable to unused product packaging.
Note 4:Indicates the current that corresponds to the RTI value (temperature at which performance is halved) of the resin when the ambient temperature is 25℃.

	Count	Description of revisions	Designed	Checked	Date
⚠4	1	DIS-H-00008543	TS.KUMAZAWA	SZ.ONO	20210401

Unless otherwise specified , refer to IEC 60512.

Approved	KJ.KATAYOSE	20050105
Checked	TY.OMA	20050105
Designed	HK.UMEHARA	20050105
Drawn	HK.UMEHARA	20050105

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

Drawing no.			ELC-163720-00-05	
HRS	Specification sheet	Part no.	DF22-*S-7.92C(28)	
	Hirose electric co., ltd.	Code no.	CL680	⚠4 1/1

FORM HD0011-2-1