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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 cable	AWG14 to 16
	Current (*1) rating	AWG14:18A/pin,AWG16:15A/pin	Applicable contact △2	DF22(A)-1416PC(F)A

	Voltage Rating	Current Rating	Overvoltage Category	IP- Degree
UL	600V AC/DC	AWG14:23A/pin,AWG16:21A/pin(Note 4)	—	—
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
△2	1	DIS-H-00008679	TS.KUMAZAWA	SZ.ONO	20210407

Unless otherwise specified , refer to IEC 60512.

Approved	HS.OKAWA	20170822
Checked	TS.FUKUSHIMA	20170822
Designed	MI.SAKIMURA	20170822
Drawn	MI.SAKIMURA	20170822

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

		Drawing no.	ELC-163562-00-00	
HRS	Specification sheet	Part no.	DF22-3EP-7.92C	
	Hirose electric co., ltd.	Code no.	CL0680-1050-1-00	△2 1/1

FORM HD0011-2-1