




Applicable standard					
Rating	Operating temperature range	-55°C to + 85°C(Note 1)	Storage temperature range	-10°C to + 60°C(Note2)	
	Operating humidity range	20% to 80% (Note3)	Storage humidity range	40% to 70%(Note2)	
	Voltage	1000V AC/DC	Applicable Connector	DF22L-1S-7.92C(28) DF22CL-1S-7.92C	
	Current(*1)	AWG10 :30A/pin AWG12 :25A/pin AWG14 :20A/pin AWG16 :15A/pin			
	Rated voltage	Rated current	Overvoltage Category	IP-Protection method	
UL	AC 600V	See above(*1)	—	—	
C-UL	AC 600V	See above(*1)	—	—	
TÜV	AC 600V	See above(*1)	II	IPOO	
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					
Contact resistance millivoltlevel method		20mV MAX, 1mA (DC OR 1000 Hz).	5 mΩ MAX.	X	—
Mechanical characteristics					
Mechanical operation		50times insertions and extractions.	1) Contact resistance: 10mΩ 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 directions.	1) No electrical discontinuity of 1μs. 2) No damage, crack or looseness of parts.	X	—
Shock		490 m/s ² duration of pulse 11 ms at 3 times for 3 directions.	1) No electrical discontinuity of 1μs. 2) No damage, crack or looseness of parts.	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) Contact resistance: 10mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Damp heat (Steady state)		Exposed at 40 ± 2 °C, 90 to 95 %, 96 h.	1) Contact resistance: 10mΩ MAX. 2) No damage, crack or looseness of parts.	X	—
Resistance to soldering heat		1) Solder bath method Solder temperature : 260°C for Immersion,duration : 10 sec . 2) Manual soldering Soldering iron temperature : 350°C Soldering time : 3 sec. No strength on contact.	No deformation of case of excessive looseness of the terminals.	X	—
Solderability		Soldered at solder temperature, 245°C for insertion duration, 5sec.	Solder shall cover a minimum of 95 % of the surface being immersed.	X	—
Remarks					
Note1: Including the temperature rising by current.					
Note2: Apply to unused product on packaged condition.					
Note3: No condensing.					
	Count	Description of revisions	Designed	Checked	Date
					
Unless otherwise specified, refer to IEC 60512.			Approved	SJ. OKAMURA	20210202
			Checked	SZ. ONO	20210202
			Designed	TS. KUMAZAWA	20210202
			Drawn	TS. KUMAZAWA	20210202
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing no.	ELC-163387-57-00	
	Specification sheet		Part no.	DF22L-1P-7. 92DSA (57)	
	HIROSE ELECTRIC CO., LTD.		Code no.	CL0680-1041-0-57	 1/1