

Applicable standard								
Rating	Operating temperature range	-35°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	AC/DC 100V			Applicable connector	DF50A-*P-1V (##) DF50A-*P-1H (##)		
	Current	△	Contact	2	3to16	Applicable Contact	DF50-26SCFA (##) DF50-2830SCFA (##) DF50K-2830SCFA (##) DF50-3032SCFA (##)	
		AWG26	2.0A	1.0A				
		AWG28	2.0A	1.0A				
		AWG30	0.9A					
		AWG32	0.7A					
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	100V DC.				500MΩ MIN.		X	-
Voltage proof	300V AC for 1 min.				No flashover or breakdown.		X	-
Mechanical characteristics								
Mechanical operation	30times insertions and extractions.				No damage, crack or looseness of parts.		X	-
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for each, for 3 directions.						X	-
Shock	490 m/s ² duration of pulse 11 ms At 3 times for 3 directions.						X	-
Environmental characteristics								
Damp heat (Steady state)	Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.				① Insulation resistance: 100MΩ MIN. ② No damage, crack or looseness of parts.		X	-
Rapid change of temperature	Temperature -55→+85°C Time 30→ 30min. Under 5 cycles. (The transferring time of the tank is 2 to 3 min)				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: Apply to the condition of long term storage for unused products before harness assembly. After harness assembly, operating temperature and humidity range is applied for interim storage during transportation.								
△	Count	Description of revisions			Designed	Checked		Date
△	3	DIS-H-00005434			HT. SATO	SZ. ONO		20191028
Unless otherwise specified, refer to IEC 60512.						Approved	KI. AKIYAMA	20100706
						Checked	OM. MIYAMOTO	20100706
						Designed	TT. OHSAKO	2010070520100706
						Drawn	TT. OHSAKO	20100705
Note QT:Qualification Test AT:Assurance Test X:Applicable Test					Drawing no.		ELC-332936-00-00	
HRS	Specification sheet				Part no.	DF50A-*S-1C		
	Hirose electric co., ltd.				Code no.	CL665-	△	1/1