Applicab	le standard								
Operating Temperatu		erature Range	-55 to +105°C (Note1)	Stora	Storage Temperature Range		-10 °C to +60°C (Note3)		3)
Rating	Operating Humidity Range		20% to 80% (Note2)		age Humidity Range		40% to 70% (Note3)		
	Applicable Connector		DF51-2S-2C(##)				AWG 30 : 0.5A AWG 28 : 1.0A AWG 26 : 2.0A	AWG 24 AWG 22	
	Voltage			UL · C-UL		Voltage	30V AC/DC		
			250 V AC/DC		9	Current	2.0A		
			Specificat	ions					
	Item	Test method			Requirements			QT	AT
Construc	ction	I			<u> </u>	· .			
General Ex	xamination	Visually and by measuring instrument.			According to drawing.			X	Х
Marking		Confirmed visually.							Х
Electric (	Characteristics				•			,	
Contact Resistance		20mV MAX, 1mA (DC or 1000Hz).			30 mΩ MAX.			X	_
Millivolt Level Method									
Insulation Resistance		500 V DC.			1000 MΩ MIN.			X	
Voltage Proof		650 V AC for 1 min.			No flashover or breakdown.			X	_
	cal Characteris				1				
Mechanical Operation (An Plating)		50 times insertion and extraction.			1.No damage, crack or looseness of parts.			s. X	-
Mating and unmating Force (Au Plating)		It takes out and inserts with a conformity connector.			1.Insertion Force : 13.7N MAX. 2.Extraction Force : 0.5N MIN.			X	_
Vibration		Frequency 10 to 55 Hz, single amplitude 0.75 mm, at			1.No electrical discontinuity of 1 $\mu$ s.			Х	_
		10 cycles for 3 direction.			2.No damage, crack or looseness of parts.				
Shock		Acceleration 490 m/s <sup>2</sup> duration of pulse 11 ms at 3						Х	-
		times for 3 direc	ctions.						
	nental Characte				T				
Damp Heat (Steady State)		Exposed at 40 $\pm$ 2°C , humidity 90 to 95 %, 96 h. (After leaving the room temperature for 1 to 2h.)			1.Insulation resistance: 500 M $\Omega$ MIN. 2.No damage, crack or looseness of parts.			s. X	
Rapid Change Of Temperature		Temperature -55°C→ +105°C  Time 30min→ 30min  Under 5 Cycles.  (The transferring time of the tank is 2 to 3 MIN)  (After leaving the room temperature for 1 to 2h.)			1.Insulation resistance: 1000 MΩ MIN.     2.No damage, crack or looseness of parts.				
Dry Heat		Exposed at 105±2°C, 96h						X	
Cold		Exposed at	-55±3°C, 96h					X	_

Note 1: Include the temperature rising by current.

Note 2: No condensing. Note 3: Apply to the unused and packaged condition.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED		CHECKED	DATE		
$\sqrt{2}$	1	DIS-H-00018757	KT. NUMATA		TT. OHSAKO			
			APPROVE	SJ. OKAMURA	20230324			
			CHECKED	SJ. OKAMURA	20230324			
			DESIGNED	SN. MIWA	20230324			
Unles	s otherwise	specified, refer to IEC 60512.		DRAWN	SN. MIWA	20230324		
Note	QT:Qualific	cation Test AT:Assurance Test X:Applicable Tes	t DRAWING	DRAWING NO.		ELC-401455-00-00		
R	35	SPECIFICATION SHEET	PART NO.	PART NO.		DF51B-2EP-2A		
		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL05	43-5133-0-00	<u>/</u> 1/1		