

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 2)(NOTE 3)	
	VOLTAGE	100V AC/DC		APPLICABLE CONNECTOR	DF81※-50P-0.4SD(##)	
	△ 2 CURRENT	AWG#34,36 : 0.3(MAX0.8A) AWG#40 : 0.25A AWG#42 : 0.2A AWG#44 : 0.15A AWG#46 : 0.1A		(NOTE4) (NOTE5)		
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		100m A (DC OR 1000 Hz).		CONTACT:80mΩ MAX. SHIELDING:80mΩ MAX.	X —	
INSULATION RESISTANCE		100V DC.		50MΩ MIN.	X —	
VOLTAGE PROOF		250V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X —	
MECHANICAL CHARACTERISTICS						
MECHANICAL OPERATION		30TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X —	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS x 10 CYCLE.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. 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.			X —	
ENVIRONMENTAL CHARACTERISTICS						
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → +85 °C TIME 30 → 30 min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.)		① CONTACT RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. SHIELDING RESISTANCE: NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.	X —	
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE. ② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X —	
SULFUR DIOXIDE GAS		EXPOSED IN 25±5PPM, 25±2°C, 75%RH, 96h.		NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	X —	
RESISTANCE TO SOLDERING HEAT		① REFLOW TEMPERATURE: PEAK 250°C MAX 240°C MIN :20 sec MAX 220°C MIN :60 sec MAX ② MANUAL SOLDERING TEMPERATURE: 350°C, 3sec MAX.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X —	
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)		SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X —	
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△ 2	2	DIS-D-003000		AH. MIYAZAKI	MH. TSUCHIDA	13. 08. 29
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT NOTE2: NON CONDENSING NOTE3: THE TERM "STORAGE" REFERS TO PRODUCTS STORED FOR A LONG PERIOD PRIOR TO MOUNTING AND USE. THE OPERATING TEMPERATURE AND HUMIDITY RANGE COVERS THE NON-CONDUCTING CONDITION OF CONNECTORS AFTER BOARD MOUNTING AND THE TEMPORARY STORAGE CONDITIONS OF TRANSPORTATION, etc NOTE4:IT COULD BE VARIED DEPENDING ON THE CONDITIONS. "MAX" IS RATING CURRENT AS ONLY TWO OF THEM TURN ON ELECTRICITY. NOTES: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CABLE IS NOT INCLUDED. Unless otherwise specified, refer to JIS C 5402,IEC60512.				APPROVED	TS. SAKATA	12. 09. 27
				CHECKED	HS. OZAWA	12. 09. 27
				DESIGNED	AH. MIYAZAKI	12. 09. 27
				DRAWN	AH. MIYAZAKI	12. 09. 27
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-340455-01
HRS	SPECIFICATION SHEET			PART NO.	DF81-50S-0. 4H(51)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL662-8102-0-51	△ 1/1