

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C
	VOLTAGE	250 V	APPLICABLE CONTACT	
	CURRENT	2 A	APPLICABLE CONNECTOR	
			APPLICABLE CABLE	

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○

ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	80 mΩ MAX. (NOTE 2)	○	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.	20 mV MAX. mA (DC OR 1000 Hz).	mΩ MAX.	—	—
INSULATION RESISTANCE	V DC	mΩ MIN.	—	—
VOLTAGE PROOF	V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN.	—	—

MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE EXTRACTION FORCE	N MAX. N MIN.	— —
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE EXTRACTION FORCE	N MAX. N MIN.	— —
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS	① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		○ —
VIBRATION	FREQUENCY 10 TO 55 Hz, TOTAL AMPLITUDE 1.5 mm, — m/s <sup>2</sup> AT ≥ 1 FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 mΩ. ② CONTACT RESISTANCE: 80 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		○ —
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 mΩ. ② CONTACT RESISTANCE: 80 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		○ —

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT C, %, h.	① CONTACT RESISTANCE: mΩ MAX. ② INSULATION RESISTANCE: mΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		— —
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → -5 → -35 → +85 → 5 → 35°C TIME 30 → 10 → 15 → 30 → 10 → 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 80 mΩ MAX. ② INSULATION RESISTANCE: 1000 mΩ. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		○ —
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, IMMERSION, DURATION, C FOR s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		— —
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, FOR IMMERSION DURATION, C s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		— —

NOTE 2. INCLUDE THE TWO CONTACTS. (INCLUDE THE CABLE AWG#28 80mm.)

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE 1 INCLUDE THE TEMPERATURE RISING BY TURNING ON ELECTRICITY. Unless otherwise specified, refer to MIL-STD-1344.	T. Miyazaki 94.9.29	T. Miyazaki 94.9.29	C. Hanami 94.10.3	U. Yamamoto 94.10.5	HRS 1029/02 USA

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

HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO. DF11-X:DP-SP1	
CODE NO. (OLD) CL	DRAWING NO. ELC4-084801-01	CODE NO. CL543-0609-1	1/1	INC	

FOR REFERENCE ONLY  
Subject to change without notice

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