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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					. .	△					. .
△					. .	△					. .

APPLICABLE STANDARD

RATING				
	OPERATING TEMPERATURE RANGE	-35 ℃ TO +85 ℃ (NOTE1)	STORAGE TEMPERATURE RANGE	-10 ℃ TO +60 ℃
	VOLTAGE	250 V AC	APPLICABLE CONTACT	
	CURRENT	3 A	APPLICABLE CONNECTOR	
			APPLICABLE CABLE	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	30 mΩ MAX.	○	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.	20 mV MAX. mA (DC OR 1000 Hz).	mΩ MAX.	—	—
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	○	—
VOLTAGE PROOF	650 V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN.	○	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.	—	—
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.	—	—
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s² AT 2 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF / μs. ② CONTACT RESISTANCE: —— mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
SHOCK	490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF / μs. ② CONTACT RESISTANCE: —— mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 ℃, 90~95%, 96 h.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5~35 → +85 → 5~35 ℃ TIME 30 → 5 → 30 → 5 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, ℃ FOR IMMERSION, DURATION, s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	—	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, ℃ FOR IMMERSION DURATION, s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	—	—

REMARKS
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.
Unless otherwise specified, refer to MIL-STD-1344.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
R. Sasaki '95.10.12	N. Tanaka '95.10.13	J. Oma '95.10.17	H. Yamamoto '95.10.23	

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

HRS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. DF18A-※-EP-2.5RC

CODE NO. (OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-160595	CL CODE NO. SHALL BE IN ACCORDANCE WITH TABLE.	1/1

FORM No. 231-1

TO