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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	-30 °C TO 85 °C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60 °C
	VOLTAGE	250 V AC	OPERATING HUMIDITY RANGE	
	CURRENT	3 A	APPLICABLE CONNECTOR	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100mA (DC OR 1000 Hz).	30 mΩ MAX.	○	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.	20 mV MAX, mA(DC OR 1000 Hz).	mΩ MAX.	—	—
INSULATION RESISTANCE	500V DC.	1000 MΩ MIN.	○	—
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASH OVER 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	50 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 0.75mm, -- m/s² AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs.	○	—
SHOCK	490 m/s² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.	② CONTACT RESISTANCE: -- mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS. OF PARTS.	○	—
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 →5 TO 35→85 →5 TO 35 °C TIME 30→10 TO 15→30 →10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HAEAVY CORROSION.	○	—
HYDROGEN SULPHIDE	EXPOSED IN -- PPM FOR -- h. (TEST STANDARD: JEIDA-38)	① CONTACT RESISTANCE: mΩ MAX. ② NO HAEAVY CORROSION.	—	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HAEAVY CORROSION.	○	—
SOLDERING HEAT	SOLDER TEMPERATURE,260±5 °C FOR IMMERSION,DURATION,10S	NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS	○	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IMMERSION DURATION,3S.	SOLDER SHALL COVER 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
S.Hata '99.5.28	M Tanaka 99.5.31	K. Akiyama '99.5.31	K. Katayose '99.5.31	

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

HRS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. DF3-*P-2DSA(01)

CODE NO (OLD)	DRAWING NO.	PEART NO	
CL	ELC4-162396-01	CL543	1/1

TO

FORM No.231-1 AC