

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

TO

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

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

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	20 mV MAX. mA(DC OR 1000 Hz).	mΩ MAX.	—	—
MILLIVOLT LEVEL METHOD.				
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/s ² AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs.	○	—
SHOCK	490 m/s ² 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: 1000 Ω 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 HEAVY CORROSION.	○	—
HYDROGEN SULPHIDE	EXPOSED IN — PPM FOR — h. (TEST STANDARD: JEIDA-38).	① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION.	—	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY 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 IMMERSERD.	○	—
REMARKS				
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT				
Unless otherwise specified, refer to MIL-STD-1344.				
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test				
DRAWN <i>M. Tomida</i> DESIGNED <i>M. Tomida</i> CHECKED <i>K. Higayama</i> APPROVED <i>K. Katayama</i> RELEASED				
DRAWING NO. ELC4-162397-01 PART NO. CL543				
CODE NO.(OLD) CL				
HRS HIROSE ELECTRIC CO., LTD. SPECIFICATION SHEET PART NO. DF3-*P-2DS(01)				

