

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO 85 °C(NOTE 1)			STORAGE TEMPERATURE RANGE	-10°C TO 60 °C			
	VOLTAGE	250 V AC			APPLICABLE CONNECTORS	D F 1 E - * S - 2 . 5 C			
	CURRENT	AWG22~20 : 3A			OPERATING HUMIDITY RANGE	UL1007,1061:AWG22~20			

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	mA (DC OR 1000 Hz).				mΩ MAX.				—	—
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.	20 mV MAX, 1 mA(DC OR 1000 Hz)				30 mΩ MAX.				×	—
INSULATION RESISTANCE	500 V DC.				MΩ MIN				—	—
VOLTAGE PROOF	650 V AC FOR 1 min.				NO FLASH OVER OR BREAKDOWN.				—	—
MECHANICAL CHARACTERISTICS										
CONTACT INSERTION AND EXTRACTION FORCES	□0.635±0.002 BY STEEL GAUGE.				INSERTION FORCE 4.41 N MAX. EXTRACTION FORCE 0.29 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 0.75mm. — m/s ² AT 2 h, FOR 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1μs. ② CONTACT RESISTANCE: 30 mΩ MAX.				×	—
SHOCK	490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.				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→ 5 MAX → 30 → 5 MAX min UNDER 5 CYCLES.				① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE:1000MΩ 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: 1 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				×	—
CORROSION SALT MIST	EXPOSED IN % SALT WATER SPRAY FOR h.				① CONTACT RESISTANCE: 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 — PPM FOR — h. (TEST STANDARD: JEIDA-39)				① CONTACT RESISTANCE: mΩ MAX. ② NO HAEAVY CORROSION.				—	—
SOLDERING HEAT	SOLDER TEMPERATURE, °C FOR IMMERSION,DURATION, S				NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS				—	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, S.				SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.				—	—
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
					W. Fukuchi	W. Fukuchi	C. Hanami	K. Katayama		
Unless otherwise specified, refer to MIL-STD-1344.					'99.11.12	'99.11.12	'99.11.12	'99.11.12		
Note QT: Qualification Test AT: Assurance Test ×:Applicable Test										
HS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET					
CODE NO.(OLD)					PART NO.					
CL					D F 1 E - 2 0 2 2 S C					
DRAWING NO					PEART NO					
ELC4-161407					CL541-1000-2					
					1/1					