



**THE DATASHEET OF
DF1E-2022SC**



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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 °C TO 85 °C(NOTE 1)			STORAGE TEMPERATURE RANGE	-10°C TO 60 °C			
	VOLTAGE	250 V AC			APPLICABLE CONNECTORS	DF1E-*S-2.5C			
	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 1min.			NO FLASH OVER OR BREAKDOWN.			—	—
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND EXTRACTION FORCES		<input type="checkbox"/> 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				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT				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									
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF1E-2022SC		
CODE NO.(OLD)		DRAWING NO			PEART NO			1/1	
CL		ELC4-161407			CL541-1000-2				



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