

May.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

DESCRIPTION OF REVISIONS		BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS		BY	CHKD	DATE
APPLICABLE STANDARD										
RATING	OPERATING TEMPERATURE RANGE	- 3 5 °C TO 8 5 °C(NOTE1)			STORAGE TEMPERATURE RANGE	- 1 0 °C TO 6 0 °C				
	VOLTAGE	5 0 V A C			APPLICABLE CONNECTOR	DF23A/C-20DS-0.5V				
	CURRENT	0. 3 A								
SPECIFICATIONS										
ITEM		TEST METHOD			REQUIREMENTS			QT	AT	
CONSTRUCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			X	X	
MARKING		CONFIRMED VISUALLY.						X	X	
ELECTRICAL CHARACTERISTICS										
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			60 mΩ MAX.			X	-	
INSULATION RESISTANCE		100 V DC.			500 MΩ MIN.			X	-	
VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			X	-	
MECHANICAL CHARACTERISTICS										
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 30 N MAX. EXTRACTION FORCE: 3 N MIN.			X	-	
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
ENVIRONMENTAL CHARACTERISTICS										
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 250 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
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: 60 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.			X	-	
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.			X	-	
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.					F. Matsuki	T. Yamamoto	T. Sakata	T. Sakata		
Unless otherwise specified, refer to IEC60512					'03.12.11	03.12.11	'03.12.11	'03.12.11		
Note QT: Qualification Test AT: Assurance Test X: Applicable Test										
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO.		
								DF23C-20DP-0.5V(92)		
CODE NO.(OLD)		DRAWING NO.			CODE NO.					1
CL		ELC4-164003-03			CL688-0801-8-92					1

