Aug.1.2025 Copyright 2025 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	−35 °C TO 85 °C(NOTE1)	STORAGE TEMPERATURE RANGE	−10 °C TO 60 °C
	VOLTAGE	50 V AC	APPLICABLE CONNECTOR	DF23A/C-*DP-0.5V
	CURRENT	0.3 A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	60 mΩ MAX.	×	—
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	×	—
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	1. CONTACT RESISTANCE: 60 mΩ MAX. 2. NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	×	—
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.	×	—
SHOCK	490 m/s² 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.	×	—
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.	×	—
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.	×	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	1. CONTACT RESISTANCE: 60 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.	×	—

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.

Unless otherwise specified, refer to MIL-STD-1344.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
T.Goi '01.3.14	T.Goi '01.3.14	S.Tashiro '01.3.16	K.Katagiri '01.3.16	

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

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. DF23C-*DS-0.5V(51)

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4−163543−01	CL688−	1/1

TO

FORM No.231-1 (N)