

Mar.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.

TO
□
□
□

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	DF1B- * S-2.5R DF1B- * DS-2.5RC DF1B- * (D)ES-2.5RC			
	CURRENT	AWG24~28 : 1A			OPERATING HUMIDITY RANGE	UL1007,1061:AWG24~28			
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 MILLIVOLT LEVEL METHOD.		20 mV MAX, 1 mA(DC OR 1000 Hz).			30 mΩ MAX.			×	—
INSULATION RESISTANCE		500 V DC.			1000 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 4.4 N MAX. EXTRACTION FORCE 0.44 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 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 → 10 → 30 → 10 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: 1000MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
REMARKS									
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
Unless otherwise specified, refer to MIL-STD-1344.				Y.INOUE '00.09.14	Y.Inoue '00. 9.14	T.Miyazaki '00. 9.14	K.Katayama '00.9.18		
Note QT: Qualification Test AT: Assurance Test ×:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF1B-2428SCFA		
CODE NO.(OLD)		DRAWING NO.		PART NO				1/1	
CL		ELC4-080532		CL541-0680-3				1/1	

