Sep.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.

APPLICABLE STANDARD				
RATING	VOLTAGE	250 V AC /DC	CURRENT ⚠1	AWG20 : 5 A AWG22 : 3 A
	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60 °C(NOTE 3)
	OPERATING HUMIDITY RANGE	40% TO + 80%(NOTE 2)	STORAGE HUMIDITY RANGE	40% TO + 70%(NOTE 3)
	APPLICABLE CABLE	UL1007,1061 : 20-22 AWG	APPLICABLE CONNECTOR	DF1B-*S-2.5R DF1B-*DS-2.5RC DF1B-*(D)ES-2.5RC

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
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	100 mA (DC OR 1000Hz).	30 mΩ MAX.	X	–
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCE	□0.635±0.002mm BY STEEL GAUGE.	INSERTION FORCE : 4.4 N MAX. EXTRACTION FORCE : 0.44 N MIN.	X	–
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR 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 OR LOOSENESS OF PARTS.	X	–
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE –55→5 TO 35→+85→5 TO35 °C TIME 30 →5 →30 →5 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–

REMARKS
NOTE 1:INCLUDING THE TEMPERATURE RISING BY CURRENT
NOTE 2:NO CONDENSING.
NOTE 3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB,
AFTER MOUNTED ON PCB, OPERATINGTEMPERATURE AND HUMIDITY RANGE IS APPLIED
FOR INTERIM STORAGE DURING TRANSPORTATION.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠1	1		TS. KUMAZAWA	SZ. ONO	20181019

APPROVED	KJ. KATAYOSE	20050105
CHECKED	TY. OMA	20050105
DESIGNED	TS. KUMAZAWA	20050105
DRAWN	TS. KUMAZAWA	20050105

Unless otherwise specified, refer to IEC 60512.

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

DRAWING NO. ELC4-020460-00

HRS	SPECIFICATION SHEET	PART NO.	DF1B-2022SCF	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL541-0223-1-00 ⚠1	1/1

FORM HD0011-2-1