

Dec.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.

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40°C TO + 85°C (NOTE 1) \triangle 1	STORAGE TEMPERATURE RANGE		-10°C TO + 60°C (NOTE 2)		
	OPERATING HUMIDITY RANGE \triangle 1	40% TO 80% (NOTE 3)	STORAGE HUMIDITY RANGE \triangle 1		40% TO 70% (NOTE 2)		
	VOLTAGE	AC 250V	UL · CSA	VOLTAGE	AC 30V		
	CURRENT	2A	RATING	CURRENT	2A		
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	100mA (DC OR 1000 Hz).		30m Ω MAX.			X	—
INSULATION RESISTANCE	500V DC.		1000M Ω MIN.			X	—
VOLTAGE PROOF	650V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.			X	—
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 30m Ω 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 μ s. 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.		① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			X	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 \pm 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 30m Ω MAX. ② INSULATION RESISTANCE: 500M Ω MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 \rightarrow 5 TO 35 \rightarrow +85 \rightarrow 5 TO 35°C TIME 30 \rightarrow 5MAX \rightarrow 30 \rightarrow 5MAX min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 30m Ω MAX. ② INSULATION RESISTANCE: 1000M Ω MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			X	—
RESISTANCE TO SOLDERING HEAT	1)AUTOMATIC SOLDERING (FLOW) SOLDER TEMPERATURE : 260 \pm 3°C FOR IMMERSION,DURATION , 10 sec . 2)MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 290 \pm 10°C SOLDERING TIME : 3 sec. NO STRENGTH ON CONTACT.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 10sec.		SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.			X	—
\triangle	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
	3	DIS-H-008583	MI. SAKIMURA	HK. UMEHARA	14. 03. 25		
REMARKS				APPROVED	KJ. KATAYOSE	05. 01. 05	
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT				CHECKED	TY. OMA	05. 01. 05	
NOTE2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.				DESIGNED	IO. DENPOUYA	05. 01. 05	
NOTE3:NON-CONDENSING. Unless otherwise specified , refer to IEC 60512.				DRAWN	IO. DENPOUYA	05. 01. 05	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-162401-01		
HRS	SPECIFICATION SHEET		PART NO.	DF11-*DS-2DSA (05)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL543	\triangle	1/1	