






**THE DATASHEET OF  
DF50A-3P-1H(51)**



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 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	-35°C TO + 85°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C (NOTE3)	
	OPERATING HUMIDITY RANGE	20 % TO 80 % (NOTE2)	STORAGE HUMIDITY RANGE	40 % TO 70 % (NOTE3)	
	VOLTAGE	AC/DC 100V	APPLICABLE CONNECTOR	DF50A-*S-1C	
	CURRENT	AWG 28 : 1.0 A AWG 30 : 0.9 A	APPLICABLE CONTACT	DF50-2830SCFA	
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	AC 20mV MAX 1mA (DC OR 1000 Hz).		30mΩ MAX.	X	-
INSULATION RESISTANCE	100V DC.		500MΩ MIN.	X	-
VOLTAGE PROOF	300V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	-
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. ③ NO ELECTRICAL DISCONTINUITY OF 1μs. ④ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLE FOR EACH, FOR 3 DIRECTIONS.			X	-
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. ④ CONTACT RESISTANCE: 50mΩ MAX. ⑤ INSULATION RESISTANCE: 500MΩ MIN. ⑥ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+85°C TIME 30→ 30min. UNDER 5 CYCLES. THE TRANSFERRING TIME OF THE TANK IS 2~3 min.			X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
			APPROVED	KI. AKIYAMA	12. 06. 26
			CHECKED	HK. UMEHARA	12. 06. 26
			DESIGNED	ST. SATO	12. 06. 26
			DRAWN	ST. SATO	12. 06. 26
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-346572-01	
	SPECIFICATION SHEET		PART NO.	DF50A-*P-1H(51)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL665-	 1/2



## Looking for pricing, stock, or lifecycle information?

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