



**THE DATASHEET OF
DF50K-2830SCFA**



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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 (NOTE 1)	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 SOCKET	DF50A-*S-1C DF50(S)-*DS-1C	
	CURRENT	AWG 28 : 2.0 A/pin AWG 30 : 0.9 A/pin	APPLICABLE CABLE	AWG 28-30	
			INSULATION DIAMETER	ϕ 0.58mm	
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).	30m Ω MAX.	X	-	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES	T=0.15 \pm 0.002 mm BY STEEL GAUGE.	INSERTION FORCE 1 N MAX. EXTRACTION FORCE 0.08 N MIN.	X	-	
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50m Ω MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR EACH, 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.		X	-	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 \pm 2 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 50m Ω MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 \rightarrow +85°C TIME 30 \rightarrow 30min. UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2~3 min)		X	-	
REMARKS					
NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE 2: NON-CONDENSING NOTE 3: APPLY TO PACKED CONDITION.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	3	DIS-H-00010571	HT. SATO	SZ. ONO	20210823
UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512			APPROVED	KI. AKIYAMA	20140109
			CHECKED	HK. UMEHARA	20140109
			DESIGNED	KY. SHIMAKURA	20140108
			DRAWN	MI. SAKIMURA	20140106
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-335648-01
	SPECIFICATION SHEET		PART NO.	DF50K-2830SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0665-0017-8-00	1/1

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