

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 INSULATION DIAMETER	AWG 28-30 ϕ 0.58mm ⚠️	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QTAT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X X
MARKING		CONFIRMED VISUALLY.			X X
ELECTRIC CHRACTERISTICS					
CONTACT RESISTANCE		AC 20mV MAX 1mA (DC OR 1000 Hz).		30mΩ MAX.	X -
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES		T=0.15±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: 50mΩ 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 1μs. 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)		EXPPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 50mΩ MAX. ② 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 -
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
				APPROVED	KI. AKIYAMA 20140109
				CHECKED	HK. UMEHARA 20140109
				DESIGNED	KY. SHIMAKURA 20140108
				DRAWN	MI. SAKIMURA 20140106
UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512					
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-335648-01
HRS	SPECIFICATION SHEET		PART NO.	DF50K-2830SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0665-0017-8-00	⚠️ 1/1