




APPLICABLE STANDARD								
RATING	OPERATING TEMPERATURE RANGE		-35°C TO +85°C (NOTE 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)		
	VOLTAGE		AC/DC 500V		APPLICABLE CONNECTOR	DF33(C)- * S/DS-3.3C		
	CURRENT		SINGLE ROW	DOUBLE ROW	APPLICABLE CABLE	UL1007 AWG20 TO 22		
		AWG20	5A	5A				
		AWG22	5A	4A				
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		1m A (DC OR 1000 Hz).20mv MAX			10 mΩ MAX.		X	—
INSULATION RESISTANCE		500 V DC.			1000MΩ MIN.		X	X
VOLTAGE PROOF		1500 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS								
CONTACT INSERTION AND EXTRACTION FORCES		□0.5mm±0.002 BY STEEL GAUGE			INSERTION FORCE : 4.5 N MAX EXTRACTION FORCE : 0.5 N MIN		X	—
MECHANICAL OPERATION		30 TIMES INSERTION AND EXTRACTION.			① CONTACT RESISTANCE: 20 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 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.			① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
ENVIRONMENTAL CHARACTERISTICS								
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 20 mΩ 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.			① CONTACT RESISTANCE: 20mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	—
REMARKS NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE 2:NO CONDENSING NOTE 3:APPLY TO THE CONDITION OF LONGTERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.								
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		DATE
Unless otherwise specified, refer to IEC 60512.					APPROVED	KI. AKIYAMA	14. 11. 18	
					CHECKED	TS. KUMAZAWA	14. 11. 18	
					DESIGNED	HT. SATO	14. 11. 18	
					DRAWN	MI. SAKIMURA	14. 11. 17	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-315924-03		
	SPECIFICATION SHEET			PART NO.		DF33A-2022SCF (40)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL676-1093-5-40		 1/1