

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
AWG20		5A	5A		
	AWG22	5A	4A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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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
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HRS	SPECIFICATION SHEET	PART NO.	DF33A-2022SCF (40)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL676-1093-5-40
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