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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(NOTES 1)		STORAGE TEMPERATURE RANGE	-10°C TO +60°C
	VOLTAGE		AC/DC 500V		APPLICABLE CONNECTOR	DF33-※S/DS-3.3C
	CURRENT		SINGLE ROW	DOUBLE ROW	APPLICABLE CABLE	UL1007:AWG20~22
		AWG20	5A	5A		
AWG22	4A	4A				
SPECIFICATIONS						
ITEM	TEST METHOD			REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.				X	X
<b>ELECTRIC CHARACTERISTICS</b>						
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
<b>MECHANICAL CHARACTERISTICS</b>						
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 <sup>2</sup> 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	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
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→5 TO 35→+85 →5 TO 35 °C TIME 30→2 TO 3 → 30 →2 TO 3 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
CORROSION, SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48h.			① CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
△	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.				APPROVED	TS. SAKATA	08.02.18
				CHECKED	HK. UMEHARA	08.02.18
				DESIGNED	TT. OHSAKO	08.02.16
				DRAWN	TT. OHSAKO	08.02.16
Unless otherwise specified, refer to JIS C 5402.				DRAWING NO.		ELC4-315924-01
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-315924-01
<b>HRS</b>	SPECIFICATION SHEET			PART NO.	DF33A-2022SCF	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL676-1093-5-00	△