

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	RE-H-03367	M.K.C.H.		99.11.05					

APPLICABLE STANDARD			
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE1)	STORAGE TEMPERATURE RANGE
	VOLTAGE	100 V AC	-10 °C TO +60 °C
	CURRENT	AWG28:1 A	APPLICABLE CONTACT
		AWG30:0.5A	APPLICABLE CONNECTOR
			APPLICABLE CABLE
			28-30AWG
			JACKET DIAMETER 0.6MAX

SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.		
MARKING	CONFIRMED VISUALLY.			
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	mΩ MAX.		
CONTACT RESISTANCE	20 mV MAX. mA(DC OR 1000 Hz).			
MILLIVOLT LEVEL METHOD				
INSULATION RESISTANCE	V DC.	MIN.		
VOLTAGE PROOF	V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	BY STEEL GAUGE.	INSERTION FORCE : N MAX. EXTRACTION FORCE : N MIN.		
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.		
MECHANICAL OPERATION	TIMES INSERTION AND EXTRACTION.	① CONTACT RESISTANCE: mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs		
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② CONTACT RESISTANCE: - mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5~35 → +85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		
DAMP HEAT(STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 ~95 %, 96 h.			
CORROSION, SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h	① CONTACT RESISTANCE: - mΩ MAX. ② NO HEAVY CORROSION.		
HYDROGEN SULPHIDE	EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38)	① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION.		
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE: - mΩ MAX. ② NO HEAVY CORROSION.		
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, °C, FOR IMMERSION DURATION, s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.		
REMARKS				
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.				
		DRAWN	DESIGNED	CHECKED
		H.UMEHARA	H.UMEHARA	M.NAKAMURA
		98.11.13	98.11.13	98.11.16
				APPROVED
				K.KATAYOSE
				98.11.16
				RELEASED
Unless otherwise specified, refer to MIL-STD-1344.				
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test				
HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.
				DF20A-*DS-1C
CODE NO. (OLD)	DRAWING NO.	PART NO.		
CL	ELC4-162771	CL686		1