

DESCRIPTION OF REVISIONS		BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS		BY	CHKD	DATE
△					△					
△					△					
APPLICABLE STANDARD										
RATING	OPERATING TEMPERATURE RANGE	- 3 5 °C TO 8 5 °C(NOTE1)			STORAGE TEMPERATURE RANGE	- 1 0 °C TO 6 0 °C				
	VOLTAGE	5 0 V A C			APPLICABLE CONNECTOR	DF23A/C-50DS-0.5V				
	CURRENT	0. 3 A								
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	
ELECTRICAL CHARACTERISTICS										
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			60 mΩ MAX.			X	-	
INSULATION RESISTANCE		100 V DC.			500 MΩ MIN.			X	-	
VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			X	-	
MECHANICAL CHARACTERISTICS										
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 60 N MAX. EXTRACTION FORCE: 7.5 N MIN.			X	-	
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND 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 1 μs. ② NO DAMAGE, CRACK AND 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 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
ENVIRONMENTAL CHARACTERISTICS										
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 250 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE: -55→ 5 TO 35→85→ 5 TO 35 °C TIME: 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES.			① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	-	
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.			X	-	
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.			X	-	
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.					F. Matsuki '03. 10. 07	T. Yamamoto '03. 10. 07	K. Akayama '03. 10. 07	K. Akayama '03. 10. 07		
Unless otherwise specified, refer to IEC60512										
Note QT: Qualification Test AT: Assurance Test X: Applicable Test										
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO.			
CODE NO.(OLD)				DRAWING NO.			CODE NO.			
CL				ELC4-164006-03			DF23C-50DP-0.5V(92) CL688-0804-6-92			
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