

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	1 -55℃ TO 85℃		STORAGE TEMPERATURE RANGE	2 -55℃ TO 60℃		
	VOLTAGE	400 V AC, 560 V DC		OPERATING HUMIDITY RANGE	95% MAX		
	CURRENT	3 A		APPLICABLE CABLE	—		
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		100mA (DC OR 1000 Hz).		7 mΩ MAX.		X	X
CONTACT RESISTANCE UNDER LOW VOLTAGE AND LOW CURRENT		20mV MAX 1mA(DC OR 1000Hz)				X	—
INSULATION RESISTANCE		500 V DC.		5000 MΩ MIN.		X	X
VOLTAGE PROOF		1250 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES		MAX ϕ 1.041 MIN ϕ 0.991 BY STEEL GAUGE		INSERTION FORCE 3.33N MAX WITHDRAWAL FORCE 0.28N MIN		X	—
INSERTION AND WITHDRAWAL FORCE		APPLICABLE CONNECTOR		INSERTION FORCE 123.5N MAX WITHDRAWAL FORCE 82.3N MAX		X	—
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTACT RESISTANCE: 7 mΩMAX. 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 10μs 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.				X	—
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 5~35 → 85 → 5~35℃ TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
DAMP HEAT,CYCLIC (STEADY STATE)		EXPOSED AT 40℃ 90~95% 96 h		1) INSULATION RESISTANCE: 10 MΩ MIN.(AT HIGH HUMIDITY) 1000 MΩ MIN.(AT DRY) 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.		X	—
RESISTANCE TO SOLDERING HEAT		TEMPERATURE:350±10℃ TIME : 5±1 SEC AT SOLDERING PARTS		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
SOLDERVILITY		SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 245±3℃, 2~3 sec.		SOLDERING POINT OF CONTACTS IMMERSION IN SOLDER,95% MIN		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
△							
REMARK				APPROVED	RI. TAKAYASU	11. 10. 20	
1 THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING.				CHECKED	TA. ASO	11. 10. 20	
2 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.				DESIGNED	KO. KAWAMURA	11. 10. 20	
				DRAWN	KO. KAWAMURA	11. 10. 20	
Unless otherwise specified, refer to JIS C 5402.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-009506-01	
HRS		SPECIFICATION SHEET		PART NO.		HDCB-37S (05)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL211-0237-0-05 △ 1/1	