

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	1 -25°C TO 60 °C	
	VOLTAGE	350 V AC , 490 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		100 mA (DC OR 1000 Hz).		15 mΩ MAX.	X X
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20 mV MAX 1 mA (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 3.33 N MAX. EXTRACTION FORCE 0.28 N MIN.	X —
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 123.5N MAX. EXTRACTION FORCE 82.3 N MAX.	X —
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.		1) CONTAC RESISTANCE: 15 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —
VIBRATION		FREQUENCY 10 TO 55Hz, SINGLE AMPLITUDE 0.75 mm, AT 2h, FOR 3 DIRECTIONS.		1) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —
SHOCK		490 m/s ² DIRECTION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.			X —
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → 25 → 85 → 25 °C. TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X —
DAMP HEAT (STEADY STATE)		EXPOSED AT 40°C , 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		SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S. (FLOW)		NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.	X —
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S.		MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.	X —
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
▲					
REMARK	1	STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.	APPROVED	R.I. TAKAYASU	11. 03. 29
			CHECKED	YH. ENAMI	11. 03. 29
			DESIGNED	K.I. NAGANUMA	11. 03. 29
			DRAWN	K.I. NAGANUMA	11. 03. 29
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-009841-02
HRS	SPECIFICATION SHEET		PART NO.	SDCB-37S (55)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL211-0254-9-55	▲ 1/1