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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	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-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 30.4 N MAX. EXTRACTION FORCE 19.6 N MAX.	X	—	
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT 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 ELECTRICAL DISCONTINUITY OF 10 μs 2) 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			APPROVED	YH. ENAMI	09.08.08
			CHECKED	YH. ENAMI	09.08.08
			DESIGNED	KI. NAGANUMA	09.08.08
Unless otherwise specified, refer to JIS C 5402.			DRAWN	KI. NAGANUMA	09.08.08
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-009835-02
	SPECIFICATION SHEET		PART NO.	SDEB-9S (55)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL211-0248-6-55	 1/