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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	① -40 °C TO 85 °C △1	STORAGE TEMPERATURE RANGE	① -25°C TO 60 °C △1	
	VOLTAGE	400 V AC , 560 V DC	OPERATING HUMIDITY RANGE	95% MAX △1	
	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).	7 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 BY STEEL GAUGE. MIN φ 0.991	INSERTION FORCE 3.3 N MAX. EXTRACTION FORCE 0.3N MIN.		X	
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 49.9 N MAX. EXTRACTION FORCE : 33.3 N MAX.		X	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE : 7 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.		X	—
SHOCK	490 m/s <sup>2</sup> DIRECTION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
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.	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 IRON HEAT △1	SOLDERING IRON TEMPERATURE, 350 ± 5 °C FOR IMMERSION, DURATION 5 ± 1 S.	NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
SOLDERABILITY △1	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	—
<p>① STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS.</p> <p>② THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING.</p>					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△	6	DIS-E-003999	SG. CHAMURA	YH. ENAMI	11. 10. 31
REMARK			APPROVED	HO. MIWA	05. 01. 05
			CHECKED	YH. ENAMI	05. 01. 05
			DESIGNED	TU. TANIGUCHI	05. 01. 05
			DRAWN	TU. TANIGUCHI	05. 01. 05
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-009504-05	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	HDAB-15S (05)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL211-0235-4-05	△ 1/1