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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	-25 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C		
	VOLTAGE	AC 150 V , DC 200 V					
	CURRENT	— 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	CONTACT SHALL BE MEASURED AT DC 1 A			10 mΩ MAX.		X	—
	GROUND SHALL BE MEASURED AT DC 1 A			30 mΩ MAX.		X	X
INSULATION RESISTANCE	100 V DC.			1000 MΩ MIN.		X	X
VOLTAGE PROOF	500 V AC. FOR 1 min.			NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND WITHDRAWAL FORCES	φ0.53 ± 0.003 BY STEEL GAUGE.			INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN.		X	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.			INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : — N MAX. LOCKING DEVICE WITH LOCK : 35 N MAX.		X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.			CONTACT RESISTANCE: 15 mΩ MAX.		X	—
				GROUND RESISTANCE: 100 mΩ MAX.		X	—
VIBRATION	FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> 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 <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
CONTACT RETENTION FORCE	APPLYING A PULL THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLE THE BODY.			20 N MIN.		X	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			① INSULATION RESISTANCE: 5 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T <sup>(1)</sup> → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.			① INSULATION RESISTANCE: 1000 MΩ MIN.. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			NO HEAVY CORROSION RUIN THE FUNCTION.		X	—
DRY HEAT	EXPOSED AT + 85 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
COLD	EXPOSED AT - 55 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
④							
REMARK				APPROVED	MO. SATOH	07.03.28	
(1) ABOVE SPECIFICATIONS SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS.				CHECKED	EJ. KUNII	07.03.28	
NOTE (1) R/T : ROOM TEMPERATURE				DESIGNED	TO. HORII	07.03.27	
Unless otherwise specified, refer to JIS C 5402.				DRAWN	MK. SATO	07.03.26	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELG4-042724-73	
<b>HRS</b>	SPECIFICATION SHEET			PART NO.	HR10G-7R-4SC (73)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL110-1701-6-73	△	1/1