



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	2 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	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/s2 AT 2h, FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	-
SHOCK	490 m/s² 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	-
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 ⁽¹⁾ → +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 CORROSIN 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	-
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, + 380±10°C, FOR SOLDERING DURATION, 3 TO 4 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, + 350±10°C FOR SOLDERING DURATION, 3 s.		WETTING ON SOLDER SURFACE,NO SOLDER CLUSTER.	X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
REMARK Note(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402.			APPROVED	MO.SATO	06.09.18
			CHECKED	EJ.KUNII	06.09.14
			DESIGNED	TP.KOMATSU	06.09.14
			DRAWN	MK.SATO	06.09.14
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-042704-74
	SPECIFICATION SHEET		PART NO.	HR10G-7R-4S (74)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL110-1601-1-74	 1/1