

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-25 °C TO +85 °C
	VOLTAGE	AC 100 V , DC 140 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		15 mΩ MAX.	X X
INSULATION RESISTANCE		100 V DC.		1000 MΩ MIN.	X X
VOLTAGE PROOF		300 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 LOCK : 30 N MAX.	X —
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 30 mΩ MAX.	X —
VIBRATION		FREQUENCY: 10 → 55 → 10 (Hz) (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X —
SHOCK		490 m/s ² DURATIONS 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 —
BREAKING STRENGTH		MAX 30N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.		NO BREAKAGE MAX 30N.	X —
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 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: 100 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. Δ	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, 2 TO 3 s.		WETTING ON SOLDER SURFACE, NO SOLDER CLUSTER.	X —
SEALING ⁽²⁾ Δ		EXPOSED AT A DEPTH OF 2 m FOR 14 DAYS.		NO WATER PENETRATION INSIDE CONNECTOR.	X —
AIRTIGHTNESS ⁽²⁾		APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.	X —
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Δ	2	DIS-C-003718	TP. KOMATSU	EJ. KUNII	14. 11. 08
REMARK				APPROVED	MR. YOSHIDA
NOTES(1) R/T : ROOM TEMPERATURE				CHECKED	MO. SATOH
(2) SEALING AND AIRTIGHTNESS SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.				DESIGNED	YH. YAMADA
Unless otherwise specified, refer to JIS C 5402.				DRAWN	YH. YAMADA
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-112022-71
HRS		SPECIFICATION SHEET		PART NO.	HR30-6R-6S (71)



	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL130-1008-8-71	1	1/1
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