APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	−25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	−10 °C TO +60 °C
	VOLTAGE	AC 30 V , DC 42 V	————	————
	CURRENT	2 A (4)	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
	CONTACT SHALL BE MEASURED AT DC —— A	—— mΩ MAX.	—	—
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	———— BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : ——— N MIN.	—	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR LOCKING DEVICE WITH LOCK.	INSERTION AND WITHDRAWAL FORCES : 50 N MAX.	X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 30 mΩ MAX.	X	—
		——— RESISTANCE: ——— mΩ MAX.	—	—
VIBRATION	FREQUENCY 10 TO 55 Hz, (1CYC, 5MIN) SINGLE AMPLITUDE 0.75 mm, AT 10CYC, FOR 3 DIRECTIONS	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION ALAXIS FOR 3 TIMES AT 490 m/s^2 DURATIONS OF PULSE 11 ms.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
CONTACT RETENTION FORCE	APPLYING A PULL FORCE THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED THE BODY	20 N MIN	X	—
BREAKING STRENGTH	MAX 30N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED	NO BREAKAGE OF CONNECTOR.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40℃, 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 TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 100 MΩMIN. 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	—
DRY HEAT	EXPOSED AT + 85 ℃ , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT − 55 ℃ , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SEALING (3)	EXPOSED AT A DEPTH OF 1m FOR 0.5 h.	NO WATER PENETRATION INSIDE CONNECTOR.	X	—
AIRTIGHTNESS (3)	APPLY AIR PRESSURE 17.6 kPa FOR 0.5min TO INSIDE CONNECTOR	NO AIR BUBBLES INSIDE CONNECTOR	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

NOTES (1) R/T : ROOM TEMPERATURE
(2) ABOVE SPECIFICATIONS SHOWS THE VELVE IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACT.
(3) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLCIABLE CONNECTOR.
(4) 2 A RATE CURRENT IS THE MAXIMUM CURRENT FLOW PER CONTACT. THE CURRENT CAPACITY OF WHOLE CONNECTOR IS 17 A MAX.

Unless otherwise specified, refer to IEC 60512.(JIS C 5402)

APPROVED	HY. KOBAYASHI	18. 03. 16
CHECKED	HY. KOBAYASHI	18. 03. 16
DESIGNED	DS. MATSUNE	18. 03. 16
DRAWN	DS. MATSUNE	18. 03. 16

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-112154-31-00

HRS	SPECIFICATION SHEET	PART NO.	HR30-7R-10PC(31)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL130-1012-5-31	A 1/1

FORM HD0011-2-1