APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-20℃ TO +85℃	STORAGE TEMPERATURE RANGE	-20℃ TO +85℃
	VOLTAGE	AC 200 V, DC 250 V	———	———
	CURRENT	3 A	APPLICABLE CABLE	(ϕ8.0 TO ϕ9.0)

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 (MIL-C-2316)	20 mΩ MAX.	X	X
INSULATION RESISTANCE	DC 500 V (MIL-STD-1344 3003)	1000 MΩ MIN.	X	X
VOLTAGE PROOF	AC 900 V FOR 1 min. (MIL-STD-1344 3001)	NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND WITHDRAWAL FORCES	ϕ0.736 $^{0}_{-0.003}$ BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.2 N MIN.	X	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. LOCKING DEVICE WITH UNLOCK	INSERTION FORCE : 70 N MAX. WITHDRAWAL FORCE : 50 N MAX.	X	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4.6.12.2)	CONTACT RESISTANCE : 30 mΩ MAX.	X	—
VIBRATION	FREQUENCY 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s^2 AT 3 h, FOR 3 DIRECTIONS. (MIL-STD-1344 METHOD 2005, CONDITION Ⅱ)	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s^2 DURATION OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 METHOD 2004, CONDITION E)	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T(1) → +85 → R/T ℃ TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES. (MIL-C-5015 4.6.4)	① INSULATION RESISTANCE: 500 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 71 ℃, 95 %, 336 h. (MIL-C-5015 4.6.10)	① INSULATION RESISTANCE: 50 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 500MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SEALING(2)	EXPOSED AT A DEPTH OF 1 m FOR 0.5 h. (JIS B 6015)	NO WATER PENETRATION INSIDE CONNECTOR.	X	—
AIRTIGHTNESS(2)	APPLY AIR PRESSURE 40 kPa FOR 30 SEC TO INSIDE CONNECTOR.	NO AIR BUBBLES FROM CONNECTOR INTERFACE.	X	—
OIL RESISTING(2)	DROP CUTTING OIL FOR 48 HOURS	NO OIL SEEPAGE INSIDE CONNECTOR.	X	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, +380±10℃ , FOR IMMERSION DURATION, 3 TO 4 SEC.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDER ABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10℃ FOR IMMERSION DURATION, 2 TO 3 SEC.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48h. (MIL-STD-1344 3001, CONDITION B)	NO HEAVY CORROSION RUIN THE FUNCTION.	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	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

NOTE (1) R/T : ROOM TEMPERATURE

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-117296-31-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. HR08D-12WPK-10S(31)

CODE NO. CL108-0262-6-31 A 1/1

FORM HD0011-2-1