APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-20 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C
	VOLTAGE	AC 200 V , DC 250 V	———	———
	CURRENT	3 A	APPLICABLE CABLE	(ϕ5.7 TO ϕ6.5)

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A (MIL-C-2316)	20 mΩ MAX.	×	—
INSULATION RESISTANCE	DC 500 V DC. (MIL-STD-1344 3003)	1000 MΩ MIN.	×	×
VOLTAGE PROOF	AC 900 V AC FOR 1 min. (MIL-STD-1344 3001)	NO FLASHOVER OR BREAKDOWN.	×	×
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND WITHDRAWAL FORCES	ϕ0.736 $^{0}_{-0.003}$ BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : 0.2 N MIN.	×	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 70 N MAX. WITHDRAWAL FORCE : 50 N MAX. LOCKING DEVICE WITH UNLOCK	×	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4.6.12.2)	CONTACT RESISTANCE : 30 mΩ MAX.	×	—
VIBRATION	FREQUENCY 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s^2 AT 3 h, FOR 3 DIRECTIONS. (MIL-STD-1344 2005, CONDITION Ⅱ)	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 2004, CONDITION E)	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
CONTACT RETENTION FORCE	APPLYING A PULL FORCE THE WIRE THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED THE BODY.	20 N MIN.	×	—
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T(1) → +85 → R/T °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 500 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 71 °C, 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.	×	—
SEALING(2)	EXPOSED AT A DEPTH OF 1 m FOR 0.5 h. (JIS B 6015)	NO WATER PENETRATION INSIDE CONNECTOR.	×	—
AIRTIGHTNESS(2)	APPLY AIR PRESSURE 40 kPa FOR 30 SEC TO INSIDE CONNECTOR.	NO AIR BUBBLES FROM CONNECTOR INTERFACE.	×	—
OIL RESISTING(2)	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5L EVERY HOUR. (JIS B 6015)	NO OIL SEEPAGE INSIDE CONNECTOR.	×	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48h. (MIL-STD-1344 3001, CONDITION B)	NO HEAVY CORROSION RUINS THE FUNCTION.	×	—
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
A					

REMARK

NOTES (1) R/T :ROOM TEMPERATURE.
(2) SEALING, AIRTIGHTNESS AND OIL RESISTING SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.
(3) THE STD. VALUE ABOVE INDICATES AT THE STATE APPLICABLE CONTACT ASSEMBLED.

Unless otherwise specified, refer to IEC 60512(JIS C5402).

APPROVED	HY.KOBAYASHI	18.02.26
CHECKED	HY.KOBAYASHI	18.02.26
DESIGNED	DS.MATSUNE	18.02.24
DRAWN	AI.NISHIYAMA	18.02.16

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

DRAWING NO. ELC-117754-31-00

HRS	SPECIFICATION SHEET	PART NO.	HR08D-12WLPM-10SC(31)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL108-0270-4-31	A 1/1

FORM HD0011-2-1