

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	(φ 6.5 TO φ 7.3)	
<b>SPECIFICATIONS</b>					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×	
MARKING	CONFIRMED VISUALLY.		×	×	
<b>ELECTRIC CHARACTERISTICS</b>					
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.	×	×	
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND WITHDRAWAL FORCES	φ 0.736 <sup>0</sup> <sub>-0.003</sub> 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 <sup>2</sup> 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 <sup>2</sup> 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.	×	—	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→ R/T <sup>(1)</sup> → +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 <sup>(2)</sup>	EXPOSED AT A DEPTH OF 1 m FOR 0.5 h. (JIS B 6015)	NO WATER PENETRATION INSIDE CONNECTOR.	×	—	
AIRTIGHTNESS <sup>(2)</sup>	APPLY AIR PRESSURE 40 kPa FOR 30 SEC TO INSIDE CONNECTOR.	NO AIR BUBBLES FROM CONNECTOR INTERFACE.	×	—	
OIL RESISTING <sup>(2)</sup>	DROP CUTTING OIL FOR 48 HOURS AT THE RATE OF 0.5L EVERY HOUR. (JIS B 6015)	NO OIL SEEPAGE INSIDE CONNECTOR.	×	—	
RESISTANCE TO SOLDERING HEAT	PLACE SOLDERING IRON (IRON TIP TEMPERATURE +380±10°C )AND SOLDER TO SOLDERING POT AREA FOR 3 TO 4 s.	NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—	
SOLDERABILITY	PLACE SOLDERING IRON (IRON TIP TEMPERATURE +350±10°C )AND SOLDER TO SOLDERING POT AREA FOR 2 TO 3 s.	A SOLDERING SIDE IS TO BE WET WITH SOLDER. AND, NO SMALL LUMP OF THE SOLDER.	×	—	
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.	×	—	
COLD	EXPOSED AT - 55 °C, 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
REMARK			APPROVED	HY. KOBAYASHI	18.02.26
NOTES(1) R/T :ROOM TEMPERATURE			CHECKED	HY. KOBAYASHI	18.02.26
(2) SEALING, AIRTIGHTNESS AND OIL RESISTING SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.			DESIGNED	DS. MATSUNE	18.02.24
Unless otherwise specified, refer to IEC 60512(JIS C5402).			DRAWN	AI. NISHIYAMA	18.02.22
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-117790-31-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	HR08D-12WLPN-10S (31)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL108-0277-3-31	△ 1/1