

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-20 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-20 °C TO +85 °C		
	VOLTAGE	AC 200 V , DC 250 V					
	CURRENT	3 A		APPLICABLE CABLE	(φ6.5 TO φ7.3)		
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		500 V DC. (MIL-STD-1344 3003)		1000 MΩ MIN.		×	×
VOLTAGE PROOF		900 V AC FOR 1 min. (MIL-STD-1344 3001)		NO FLASHOVER OR BREAKDOWN.		×	×
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND WITHDRAWAL FORCES		φ0.736 <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.		×	—
ENVIRONMENTAL CHARACTERISTICS							
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. (MIL-C-5015 4.6.4)		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		EXPOSED AT A DEPTH OF 1 m FOR 0.5 h. (JIS B 6015)		NO WATER PENETRATION INSIDE CONNECTOR.		×	—
AIRTIGHTNESS		APPLY AIR PRESSURE 40 kPa FOR 30 SEC TO INSIDE CONNECTOR.		NO AIR BUBBLES FROM CONNECTOR INTERFACE.		×	—
OIL RESISTING		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 CORROSIN RUIN 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	
NOTE(1) R/T :ROOM TEMPERATURE				CHECKED	HY. KOBAYASHI	18.02.26	
Unless otherwise specified, refer to IEC 60512(JIS C5402).				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-115932-31-00	
HRS	SPECIFICATION SHEET			PART NO.	HR08D-12WPB-10S (31)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL108-0231-2-31	△	1/1