



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)	
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		φ 0.736 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.	×	—
COLD		EXPOSED AT - 55 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
①						
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-117753-31-00	
	SPECIFICATION SHEET		PART NO.	HR08D-12WPN-10SC (31)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL108-0269-5-31		1/1