



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	(ϕ 8.0 TO ϕ 9.0)			
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	—	
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		ϕ 0.736 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	—	
CONTACT RETENTION FORCE		APPLYING A PULL FORCE THE WIRE THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED THE BODY.		20 N MIN.		X	—	
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. (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 °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.		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	—	
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48h. (MIL-STD-1344 METHOD 3001, CONDITION B)		NO HEAVY CORROSION RUIN THE FUNCTION.		X	—	
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
Q								
REMARK NOTES (1) R/T : ROOM TEMPERATURE (2) THE STD. VALUE ABOVE INDICATES AT THE STATE APPLICABLE CONTACT ASSEMBLED.				APPROVED		HY. KOBAYASHI		18.03.16
				CHECKED		HY. KOBAYASHI		18.03.16
				DESIGNED		DS. MATSUNE		18.03.16
				DRAWN		DS. MATSUNE		18.03.16
Unless otherwise specified, refer to IEC 60512. (JIS C 5402)								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-117297-31-00		
	SPECIFICATION SHEET			PART NO.		HR08D-12WPK-10SC (31)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL108-0263-9-31		 1/1