

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO +100 °C		STORAGE TEMPERATURE RANGE	-40 °C TO +85 °C		
	VOLTAGE	AC 250 V , DC 350 V					
	CURRENT	12 A		APPLICABLE CABLE			
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		5 mΩ MAX.		X	X
INSULATION RESISTANCE		500 V DC.		1000 MΩ MIN.		X	X
VOLTAGE PROOF		2000 V AC. FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	X
IMPULSE VOLTAGE PROOF		4kV STANDARD WAVE (1.2/50μs VOLTAGE WAVE) FOR POSITIVE VOLTAGE 3 TIMES AND NEGATIVE VOLTAGE 3 TIMES.		NO FLASHOVER OR BREAKDOWN.		X	—
MECHANICAL CHARACTERISTICS							
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. (WITH LOCK)		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH LOCK : 5 TO 50 N.		X	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 10 mΩ MAX.		X	—
VIBRATION		FREQUENCY: 10 TO 55 Hz (1CYCLE : 5min), SINGLE AMPLITUDE 0.75 mm, AT 10CYCLES, FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
SHOCK		490 m/s ² DURATIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 10μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		①INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ②INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③NO DAMAGE, CRACK AND LOOSENESS OF ARTS.		X	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40→ R/T ⁽¹⁾ → +100 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.		①INSULATION RESISTANCE: 1000 MΩ MIN. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48h.		NO HEAVY CORROSION RUIN THE FUNCTION.		X	—
DRY HEAT		EXPOSED AT + 100 °C , 96 h.		NO DAMAGE, CRACK AND LOOSENESS OFPARTS.		X	—
COLD		EXPOSED AT - 40 °C , 96 h.		NO DAMAGE, CRACK AND LOOSENESS OFPARTS.		X	—
RESISTACE TO SOLDERING HEAT		SOLDER TEMPERATURE +260°C FOR SOLDERING DURATION, 10 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, +245°C FOR SOLDERING DURATION, 3 S.		WETTING ON SOLDER SURFACE, NO SOLDER CLUSTER.		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
Δ							
REMARK				APPROVED	EJ. KUNII	16.02.17	
NOTE 1. (1)R/T:ROOM TEMPERATURE.				CHECKED	EJ. KUNII	16.02.17	
				DESIGNED	SJ. SHIMIZU	16.02.17	
				DRAWN	SJ. SHIMIZU	16.02.17	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-112082-75-00	
HRS	SPECIFICATION SHEET			PART NO.	HR31-5. 08R-5PDL (75)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL131-0001-0-75 Δ 1/1		