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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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
2. RESISTANCE TO SOLDERING HEAT SHALL BE TESTED IN MOUNTED CONDITION WITH BOARD OF 1.6mm.			DESIGNED	SJ. SHIMIZU	16.02.17
Unless otherwise specified, refer to IEC 60512.			DRAWN	SJ. SHIMIZU	16.02.17
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-112108-76-00
HRS	SPECIFICATION SHEET		PART NO.	HR31-5.08R-5PD (76)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL131-0003-5-76	Δ 1/1