

Oct.1.2019 Copyright 2019 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
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 <sup>2</sup> 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 <sup>(1)</sup> → +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	-	
RESISTANCE 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
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-112082-75-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	HR31-5.08R-5PDL (75)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL131-0001-0-75	Δ 1/1