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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	-25 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	AC 100 V , DC 140 V			
	CURRENT	5 A	APPLICABLE CABLE		
<b>SPECIFICATIONS</b>					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
<b>ELECTRIC CHARACTERISTICS</b>					
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	1000 V AC. FOR 1 min. CURRENT LEAKAGE 2mA MAX.	NO FLASHOVER OR BREAKDOWN.	X	X	
<b>MECHANICAL CHARACTERISTICS</b>					
CONTACT INSERTION AND WITHDRAWAL FORCES	BY STEEL GAUGE.	INSERTION AND WITHDRAWAL FORCES : — N MIN.	—	—	
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 81 N MAX. LOCKING DEVICE WITH LOCK : — N MAX.	X	—	
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	CONTACT RESISTANCE: 5 mΩ MAX.	X	—	
VIBRATION	FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—	
SHOCK	490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → R/T <sup>(1)</sup> → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① INSULATION RESISTANCE: 1000 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 500 h.	NO HEAVY CORROSION RUINS THE FUNCTION.	X	—	
DRY HEAT	EXPOSED AT + 100 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
COLD	EXPOSED AT - 40 °C , 96 h.	NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—	
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, +380±10°C , FOR IMMERSION DURATION, 3 TO 4 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s.	WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	—	
SEALING <sup>(2)</sup>	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.	NO WATER PENETRATION INSIDE CONNECTOR.	X	—	
AIRTIGHTNESS <sup>(2)</sup>	APPLY AIR PRESSURE 18 kPa FOR 30 S TO INSIDE CONNECTOR.	NO AIR BUBBLES INSIDE CONNECTOR.	X	—	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
0					
REMARK		APPROVED	HY. KOBAYASHI	18.02.22	
(1) R/T : ROOM TEMPERATURE		CHECKED	HY. KOBAYASHI	18.02.22	
(2) SEALING AND AIRTIGHTNESS TESTS ARE TO BE PERFORMED WITH NO LOAD APPLIED TO THE CABLE AND OTHERS.		DESIGNED	TH. KAMEYA	18.02.21	
Unless otherwise specified, refer to IEC 60512.		DRAWN	MK. INOUE	18.02.13	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-110586-31-00		
<b>HRS</b>	SPECIFICATION SHEET	PART NO.	JR25WR-24P (31)		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL114-2033-1-31		1/1