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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	10 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
	CONTACT SHALL BE MEASURED AT DC — A		— mΩ MAX.		—	—
INSULATION RESISTANCE	500 V DC.		1000 MΩ MIN.		X	X
VOLTAGE PROOF	1000 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS						
CONTACT INSERTION AND WITHDRAWAL FORCES	— BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : — N MIN.		—	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR. LOCKING DEVICE WITH LOOK.		INSERTION AND WITHDRAWAL FORCES : 32 N MAX.		X	—
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 5 mΩ MAX.		X	—
			— RESISTANCE: — mΩ MAX.		—	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2 h, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
SHOCK	490 m/s ² 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	—
ENVIRONMENTAL CHARACTERISTICS						
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 -40 → R/T ⁽²⁾ → +100 → 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.		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 ₀ ¹ s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 ~ 3 s.		WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.		X	—
SEALING ⁽¹⁾	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.		X	—
AIR TIGHTNESS ⁽¹⁾	APPLY AIR PRESSURE 18 kPa FOR 0.5 min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.		X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
						
REMARK			APPROVED	HY. KOBAYASHI	18.03.15	
(1) SEALING AND AIR TIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR.			CHECKED	HY. KOBAYASHI	18.03.15	
(2) R/T : ROOM TEMPERATURE			DESIGNED	TH. KAMEYA	18.03.15	
Unless otherwise specified, refer to IEC 60512.(JIS C 5402)			DRAWN	TH. KAMEYA	18.03.15	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-110579-31-00	
	SPECIFICATION SHEET		PART NO.	JR16WR-7P (31)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL114-2025-3-31		