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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 250 V , DC 350 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
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.		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : — N MAX. LOCKING DEVICE WITH LOCK : 32 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 ² 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 ² DURATIONS 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 ⁽¹⁾ → +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 RUIN 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 ⁺¹ ₀ 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.		SOLDER SURFACE TO BE FREE FROM PIN-HOLE, NO WETTING AND OTHER DEFECTS.		X	-
SEALING ⁽²⁾		EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.		X	-
AIRTIGHTNESS ⁽²⁾		APPLY AIR PRESSURE 18 kPa FOR 30 s TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.		X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
①							
REMARK				APPROVED	HY. KOBAYASHI	18.02.26	
NOTES(1) R/T : ROOM TEMPERATURE				CHECKED	HY. KOBAYASHI	18.02.26	
(2) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR AND CABLE.				DESIGNED	TH. KAMEYA	18.02.22	
Unless otherwise specified, refer to JIS C 5402.(IEC 60512)				DRAWN	MK. INOUE	18.02.13	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-110460-31-00		
HRS	SPECIFICATION SHEET		PART NO.	JR16WP-7P (31)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL114-2003-0-31	①	1/1	