

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-35 °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. (UNMATED)		NO FLASHOVER OR BREAKDOWN.	X	X
	4000 V AC. FOR 1 min. (MATED)		NO FLASHOVER OR BREAKDOWN.	X	-
MECHANICAL CHARACTERISTICS					
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 13.7 N MAX.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 5 mΩ MAX.	X	-
VIBRATION	FREQUENCY: 10→55→10Hz/CYCLE, SINGLE AMPLITUDE 0.75 mm, 5min/CYCLE, AT 10CYCLE FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms.		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→+100→R/T °C TIME 30→2 TO 3→30→2 TO 3 min, UNDER 5 CYCLES. (R/T : ROOM TEMPERATURE)		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	SOLDERED AT SOLDERING IRON BIT TEMPERATURE +380±10°C FOR 3 TO 4 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
SOLDERABILITY	SOLDERED AT SOLDERING IRON BIT TEMPERATURE +350±10°C FOR 2 TO 3 s.		WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.	X	-
SEALING ⁽²⁾	EXPOSED WATER 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	TP. KOMATSU	20240827
(1) This product satisfies the specifications specified below (IEC 60664 (JIS C 60664)) · At AC/DC 250V: Overvoltage Category III, Minimum Creepage Distance: 2mm MIN. · Over DC 250V: Overvoltage Category II, Minimum Creepage Distance: 2mm MIN.			CHECKED	KS. TAKAHASHI	20240823
(2) Sealing and Airtightness are tested in mated condition with an applicable connector. Unless otherwise specified, refer to IEC 60512(JIS C 5402).			DESIGNED	HK. KEINO	20240823
			DRAWN	HK. KEINO	20240823
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-119039-20-00
HRS	SPECIFICATION SHEET		PART NO.	JR13WRFA-3PA (20)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0114-2103-0-20	△ 1/1

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