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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C			STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C			
	VOLTAGE	AC 500 V, DC 700 V							
	CURRENT	5 A			APPLICABLE CABLE				
SPECIFICATIONS									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING		CONFIRMED VISUALLY.						×	×
ELECTRIC CHARACTERISTICS									
CONTACT RESISTANCE		CONTACT SHALL BE MEASURED AT DC 1 A			4 mΩ MAX.			×	×
		CONTACT SHALL BE MEASURED AT DC — A			— mΩ MAX.			—	—
INSULATION RESISTANCE		500 V DC.			1000 MΩ MIN.			×	×
VOLTAGE PROOF		1500 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×
MECHANICAL CHARACTERISTICS									
CONTACT INSERTION AND WITHDRAWAL FORCES		φ0.991 +0.003 BY STEEL GAUGE. 0			INSERTION AND WITHDRAWAL FORCES : 0.2 N MIN.			×	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR. LOCKING DEVICE WITH LOOK.			INSERTION AND WITHDRAWAL FORCES : 84 N MAX.			×	—
MECHANICAL OPERATION		2000 TIMES INSERTIONS AND EXTRACTIONS.			CONTACT RESISTANCE: 8 mΩ MAX.			×	—
					— 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.			×	—
SHOCK		490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.			① INSULATION RESISTANCE: — MΩMIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩMIN (AT DRY). ③ NO DAMAGE CRACK AND LOOSENESS OF PARTS.			×	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 → R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.			① INSULATION RESISTANCE: 100 MΩMIN. ② NO DAMAGE CRACK AND LOOSENESS OF PARTS.			×	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			NO HEAVY CORROSION.			×	—
DRY HEAT		EXPOSED AT +85 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
COLD		EXPOSED AT -55 °C, 96 h.			NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, + 380 ± 10 °C, FOR SOLDERING DURATION, 3 s.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			×	—
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, + 350 ± 10 °C FOR SOLDERING DURATION, 3 s.			WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER.			×	—
SEALING		EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.			NO WATER PENETRATION INSIDE CONNECTOR.			×	—
AIRTIGHTNESS		APPLY AIR PRESSURE 17.6 kPa FOR 0.5min TO INSIDE CONNECTOR.			NO AIR BUBBLES FROM CONNECTOR INTERFACE.			×	—
REMARKS									
NOTES (1) R/T : ROOM TEMPERATURE				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
				E. Yumino	Y. Yamada	H. Zemba	M. Sato		
				06.05.12	06.05.12	06.05.12	06.05.12		
Unless otherwise specified, refer to JIS C 5402.									
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. RM24WTP-31S (71)		
CODE NO. (OLD)		DRAWING NO.			CODE NO.			1 / 1	
		ELC4-110113-71			CL109-1491-5-71				

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