

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	140°C to +85°C(90%RH MAX)		STORAGE TEMPERATURE RANGE	-40°C to +85°C(90%RH MAX)		
	VOLTAGE	AC 500 V		CHARACTERISTIC IMPEDANCE	—		
	CURRENT	2 A					
	PECULIARITY	NON MAGNETIC		APPLICABLE CABLE	UL1007 TR-64LF 1×AWG24 (HITACHI CABLE CO.,LTD.)		
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		100 mA MAX (DC OR 1000 Hz).		CENTER CONTACT	30 mΩ MAX.	×	—
INSULATION RESISTANCE		500 V DC.			500 MΩ MIN.	×	—
VOLTAGE PROOF		1500 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.		NO FLASHOVER OR BREAKDOWN.		×	—
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES		MEASURED BY WIDTH STEEL GAUGE		INSERTION FORCE	N MAX.	—	—
				EXTRACTION FARCE	N MIN	—	—
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE	N MAX.	—	—
				EXTRACTION FARCE	N MIN.	—	—
MECHANICAL OPERATION		60,000 TIMES INSERTIONS AND EXTRACTIONS △		1) CONTACT RESISTANCE: 60 mΩMAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
VIBRATION		FREQUENCY 10 to 500 Hz SINGLE AMPLITUDE 0.75 mm, 98 m/s ² AT 10 CYCLES FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
SHOCK		735 m/s ² DIRECTIONS OF PULSE 6 ms AT 3 TIMES FOR 3 DIRECTIONS.				×	—
CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)		APPLYING A PULL FORCE THE CABLE AXIALLY AT 19.6 N MAX.		1) NO WITHDRAWAL AND BREAKAGE OF CABLE. 2) NO BREAKAGE OF CLAMP.		×	—
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT		EXPOSED AT +40 °C 、 95% TOTAL (96 H)		1) INSULATION RESISTANCE: 10 MΩ MIN. (AT HIGH HUMIDITY) 2) INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40→ 20 to 35→ +85→ 20 to 35 °C TIME 30 → 3 → 30 → 3 min. UNDER 5 CYCLES.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	—
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION.		×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△	1	DIS-D-00000161	HA. NISHIMURA	MH. TSUCHIDA	15. 04. 07		
REMARK				APPROVED	MH. YAMANE	12. 09. 05	
RoHS COMPLIANT, NON MAGNETIC				CHECKED	MH. TSUCHIDA	12. 09. 05	
This specification shall be performed assembled into MRF14-CON(M)-14M (CL313-0706-0)				DESIGNED	TS. KANEKO	12. 09. 05	
Note 1 It contain temperature rise by current carrying				DRAWN	YY. KOBAYASHI	12. 09. 05	
Unless otherwise specified, refer to JIS C 5402.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-347405-00		
HRS	SPECIFICATION SHEET		PART NO.	MRF14-CON (MC)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL313-0716-3-00		△	1/1