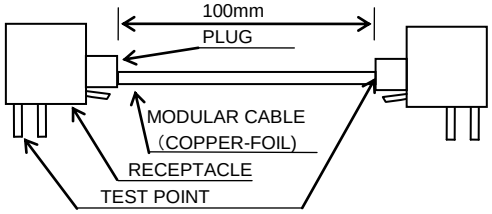
APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	−55°C TO 85°C △1	STORAGE TEMPERATURE RANGE	−25°C TO 60°C △1
	VOLTAGE	125 V AC	CURRENT	500 A

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 AC). MEASUREMENT POINTS SHALL BE AS FOLLOWS.  (ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN)	230 mΩMAX.	○	○
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	○	○
VOLTAGE PROOF (CONTACT TO CONTACT)	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○	○
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 250 mΩMAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	–
VIBRATION	1 CYCLE: FREQUENCY 10 TO 55 TO 10 Hz 0.75mm SINGLE AMPLITUDE 1 OCTAVE/MIN. CONDUCT 10CYCLES TO 3 EACH 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 5 μs. ② CONTACT RESISTANCE: 250 mΩMAX. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	–
SHOCK	490 m/s² ACCELERATION, 11 ms DURATION,HALF SINE. CONDUCT 3 TIMES TO EACH 6 DIRECTION.		○	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT, (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 500 h.	① CONTACT RESISTANCE: 250 mΩMAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 10 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE −55±3 → 15 TO 35 → 85±2 → 15 TO 35 °C TIME 30TO35 → 2TO3 →30TO35 → 2TO3 min. UNDER 5 CYCLES.	① CONTACT RESISTANCE: 250 mΩMAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	–
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 250 mΩMAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	○	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△1	2	DIS-E-00002217	TS. ITO	TU. TANIGUCHI	20190425

REMARK

Unless otherwise specified, refer to JIS C 5402.

APPROVED	HO. MIWA	20050105
CHECKED	TH. KAMEYA	20050105
DESIGNED	SS. SATOH	20050105
DRAWN	SS. SATOH	20050105

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-123381-01

HRS	SPECIFICATION SHEET	PART NO.	TM18R-SO-88NA(50)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL222-2908-8-50 △1	1/2

FORM HD0011-2-1

REFLOW CONDITION

TEMPERATURE	TIME
150 TO 180 ℃	60 SEC
200 UP	55 SEC
220 UP	40 SEC
230 UP	30 SEC
235 UP	20 SEC
240 UP	A SEC