

May.1.2019 Copyright 2019 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△				..	△				..
△				..	△				..

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO 60 °C	STORAGE TEMPERATURE RANGE	°C TO °C
	VOLTAGE		CURRENT	100 mA

## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
------	-------------	--------------	----	----

CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
MARKING	CONFIRMED VISUALLY.		<input type="checkbox"/>	<input type="checkbox"/>

ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	MEASURE AT 100 mA DC (DC OR 1000 Hz AC) MEASUREMENT POINTS SHALL BE AS FOLLOWS.	230 mΩ MAX.	<input type="checkbox"/>	<input type="checkbox"/>
INSULATION RESISTANCE	100 V DC	100 MΩ MIN.	<input type="checkbox"/>	<input type="checkbox"/>
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	<input type="checkbox"/>	<input type="checkbox"/>
CONTINUITY	100 mA DC	MUST BE CONTINUOUS.	<input type="checkbox"/>	<input type="checkbox"/>

MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 250 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS	<input type="checkbox"/>	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, - m/s <sup>2</sup> AT 2 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 5 μs. ② CONTACT RESISTANCE: 250 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	-
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	-

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 500 h.	① CONTACT RESISTANCE: 250 mΩ MAX. 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.	<input type="checkbox"/>	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55±3-5 TO 35-85±2-5 TO 35 °C TIME 30 TO 35-5MAX. -30 TO 35-5MAX. min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 250 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 250 mΩ MAX. ② NO HEAVY CORROSION.	<input type="checkbox"/>	-

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
		<i>T. Watanabe</i>	<i>T. Watanabe</i>	<i>H. Miwa</i>	<i>S. Watanabe</i>
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.		'95.7.10	'95.7.10	95.7.10	95.7.10

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST ○: APPLICABLE TEST

**HRS** HIROSE ELECTRIC CO., LTD. SPECIFICATION SHEET PART NO. **TM10P-88P**

CODE NO. (OLD)	DRAWING NO.	CODE NO.	1/1
CL - - -	ELC4-028188	CL 222-1818-1-	

TO  
Q2

