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 In case that the application demands a high level of reliability, such as automotive,
 please contact a company representative for further information.

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 70 °C	STORAGE TEMPERATURE RANGE	-55°C TO 85°C
	VOLTAGE	AC 125 V	OPERATING HUMIDITY RANGE	95 % MAX.
	CURRENT	SIGNAL CONTACT : 0.5 A POWER CONTACT : 3 A	APPLICABLE CABLE	—

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).	SIGNAL CONTACT RESISTANCE : 70 mΩ MAX. POWER CONTACT RESISTANCE : 40 mΩ MAX. GND CONTACT RESISTANCE : 50 mΩ MAX.	X	X
INSULATION RESISTANCE	250 V DC.	300 MΩ MIN.	X	—
VOLTAGE PROOF	350 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X

MECHANICAL CHARACTERISTICS

INSERTION AND EXTRACTION FORCE	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE 35 N MAX. EXTRACTION FORCE 30 N MAX.	X	—
MECHANICAL OPERATION	5000 TIMES INSERTIONS AND EXTRACTIONS.	1) SIGNAL CONTACT RESISTANCE : 100 mΩ MAX POWER CONTACT RESISTANCE : 70 mΩ MAX GND CONTACT RESISTANCE : 100 mΩ MAX 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) SIGNAL CONTACT RESISTANCE: 100 mΩ MAX POWER CONTACT RESISTANCE: 70 mΩ MAX GND CONTACT RESISTANCE : 100 mΩ MAX 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	ACCELERATION 490 m/s ² . DIRECTIONS OF PULSE 11 ms AT 6 TIMES FOR 3 DIRECTIONS. HALF SINE WAVE.		X	—

ENVIRONMENTAL CHARACTERISTICS

RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 15~35 → 85 → 15~35 °C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.	1) SIGNAL CONTACT RESISTANCE: 100 mΩ MAX. POWER CONTACT RESISTANCE: 70 mΩ MAX. GND CONTACT RESISTANCE : 100 mΩ MAX. 2) INSULATION RESISTANCE : 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90~95 %, 96 h.	1) SIGNAL CONTACT RESISTANCE: 100 mΩ MAX. POWER CONTACT RESISTANCE: 70 mΩ MAX. GND CONTACT RESISTANCE : 100 mΩ MAX. 2) INSULATION RESISTANCE : 5 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO DAMAGE, CRACK AND LOOSENESS, OF PARTS	X	—

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COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARK	APPROVED	NM. NISHIMATSU	15. 10. 27
	CHECKED	KN. ICHIKAWA	15. 10. 27
	DESIGNED	TS. ITO	15. 10. 27
	DRAWN	AK. AKIYAMA	15. 10. 27

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-122791-30-00
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HRS	SPECIFICATION SHEET	PART NO.	EX80-100P1 (30)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL232-0598-9-30	△ 1/1