




APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 70 °C	STORAGE TEMPERATURE RANGE	-55°C TO 60°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
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 24 N MAX. EXTRACTION FORCE 20 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	X	—
SHOCK		ACCELERATION 490 m/s <sup>2</sup> . DIRECTIONS OF PULSE 11 ms AT 6 TIMES FOR 3 DIRECTIONS. HALF SINE WAVE.	3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	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	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
REMARK			APPROVED	MN. KENJO	20200407
			CHECKED	TU. TANIGUCHI	20200407
			DESIGNED	KIM JAEHYEON	20200407
			DRAWN	DS. HIROWATARI	20200407
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-123447-70-00	
	SPECIFICATION SHEET		PART NO.	EX80-54 (50) P (70)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL232-0607-8-70	 1/1