

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +75°C	STORAGE TEMPERATURE RANGE	-40 °C TO +85 °C			
	VOLTAGE	DC30V MAX/AC40V MAX	OPERATING HUMIDITY RANGE	- % TO - %			
	CURRENT	MAX 2 A	APPLICABLE CABLE	AWG24 TO AWG32			
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		
ELECTRICAL CHARACTERISTICS							
CONTACT RESISTANCE	10 mA (DC OR 1000 Hz).		30 mΩ MAX.		X X		
INSULATION RESISTANCE	100 V DC.		1000 MΩ MIN.		X -		
VOLTAGE PROOF	250 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X X		
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE 21.6 N MAX. WITHDRAWAL FORCE 6 TO 21.6 N.		X -		
MECHANICAL OPERATION	5000 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X -		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, - m/s ² AT 3 h, FOR 3 AXIAL DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1μs MIN. ② CONTACT RESISTANCE: 50 mΩ MAX		X -		
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.,		③ NO HEAVY DAMAGE, CRACK AND LOOSENESS OF PARTS.		X -		
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → +5 TO +35 → +85 → +5 TO +35 °C TIME 30 → 5 → 30 → 5 min. UNDER 5 CYCLES.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X -		
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 10 MΩ MIN. (AFTER DRY) ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X -		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY DAMAGE, CRACK AND LOOSENESS OF PARTS.		X -		
RESISTANCE TO SOLDERING HEAT	SOLDERING IRON HEAT TEMPERATURE: 380 ±5°C DURATION TIME: 3sec MAX/POINT OF CONTACT.		NO SIGNIFICANT DEFORMATION OF APPEARANCE AND CONTACTS LOOSENESS.		X -		
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
1	DIS-E-00000496		TS. ITO	NM. NISHIMATSU	16.03.08		
REMARK				APPROVED	NM. NISHIMATSU		
				CHECKED	KN. ICHIKAWA		
				DESIGNED	TS. ITO		
				DRAWN	AK. AKIYAMA		
Note QT:Qualification Test AT:Assurance Test O:Applicable Test			DRAWING NO.	ELC-120843-30-00			
HRS	SPECIFICATION SHEET		PART NO.	MQ172X-4SA-CV (30)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL206-2001-9-30	△ 1/1		