

APPLICABLE STANDARD								
RATING	OPERATING TEMPERATURE RANGE	-30°C TO +75°C		STORAGE TEMPERATURE RANGE	-40°C TO +85°C			
	VOLTAGE	DC 30V MAX. / AC 40V MAX.		OPERATING HUMIDITY RANGE	- % TO - %			
	CURRENT	3A MAX.		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 MAX (DC OR 1000 Hz).		30mΩ MAX.			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 19.6 N MAX. WITHDRAWAL FORCE 4 TO 19.6 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 2 HOURS FOR 3 DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) CONTACT RESISTANCE : 50 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-	
SHOCK	490 m/s ² , DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.					X	-	
ENVIRONMENTAL CHARACTERISTICS								
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5TO35 → +85 → 5TO35 °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 %, FOR 96 HOURS .		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 FOR 48 HOURS.		1) CONTACT RESISTANCE : 50 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-	
RESISTANCE TO SOLDERING HEAT (SOLDERIRON METHOD)	TEMPERATURE : 380 ± 5 °C TIME : 3 sec.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-	
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		DATE
△								
REMARK Unless otherwise specified, refer to IEC 60512.						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-120678-30-00		
	SPECIFICATION SHEET			PART NO.	MQ172-3SA-CV (30)			
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL206-0951-7-30		△	1/1