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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-30℃ TO +75℃	STORAGE TEMPERATURE RANGE	-40 ℃ TO +85 ℃	
	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 ℃ 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 ℃, 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℃ 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 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 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