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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		TÜV approved(R50204909), UL approved(E52653)		
Rating	Operating Temperature Range	-40°C to +125°C (4)	Storage Temperature Range	-10°C to +60°C
	Voltage	AC, DC 500 V(UL,TÜV) AC, DC 1000V	—	—
	Current	—	Applicable Cable	—

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
General Examination	Examined visually and with a measuring instrument.	According to the drawing.	X	X
Marking	Confirmed visually.		X	X
ELECTRICAL CHARACTERISTICS				
Contact Resistance	Measured at —.	— mΩ MAX.	—	—
Insulation Resistance	Measured at 500 V DC.	5000 MΩ MIN.	X	X
Voltage Proof	4260 V AC applied for 1 min.	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS				
Contact Insertion and Extraction Forces	Measured with a ϕ___ steel gauge.	Insertion and extraction forces: — N MIN.	—	—
Mating and Unmating Forces	Measured with an applicable connector	Mating and unmating forces: 100 N MAX.	X	—
Contact Retention Force	Subjected to a 50N force from the wiring side.	No movement of contact.	X	—
Mechanical Operation	Mated and unmated 100 times.	No damage, cracks or looseness of parts.	X	—
Vibration	Frequency: 10 Hz to 55 to 10 Hz every cycle. Single amplitude: 0.75 mm, Acceleration: 98 m/s^2 Performed over 10 cycles in each of three mutually perpendicular directions.	1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.	X	—
Shock	Acceleration: 490 m/s^2, Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular directions.	1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.	X	—
ENVIRONMENTAL CHARACTERISTICS				
Rapid Change of Temperature	Temperature: -55 → R/T(1) → +125 → R/T °C Time: 30 → 2 to 3 → 30 → 2 to 3 min for 5 cycles.	1) Insulation resistance: 500 MΩ MIN. 2) No damage, cracks or looseness of parts.	X	—
Damp Heat, Steady State	Subjected to a temperature of+40°C, at a humidity of 90 to 95% for 96 hours.	1) Insulation resistance: 50 MΩ MIN. (At high humidity) 2) Insulation resistance: 500 MΩ MIN. (When dry) 3) No damage, cracks or looseness of parts.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

NOTES

(1) R/T : Room Temperature.

(2) The above specifications show the values in assembled condition with applicable crimp contacts.

(3) RoHS2 compliant.

(4) Including temperature rise due to current carrying.

Unless otherwise specified, refer to JIS C 5402(IEC 60512).

APPROVED	HY.KOBAYASHI	20181203
CHECKED	HY.KOBAYASHI	20181203
DESIGNED	DS.MATSUNE	20181203
DRAWN	DS.MATSUNE	20181203

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-117062-81-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. EM35MR-4PC(81)

CODE NO. CL138-0022-4-81 △0 1/1

FORM HD0011-2-1