

5 A

Electric Powertrain

5AM - CUSTOMER BENEFITS

Our new ambition: Zero Emission for All

The 5A is the first electric powertrain to equip Renault Z.E. range :
Fluence Z.E., Kangoo Z.E. and ZOE

HIGH TECHNOLOGY

- Innovative Technical Patents, up to 60 for ZOE
- Synchronous motor type with wound rotor, 10% more efficient than permanent magnetic rotor.
- System tuned for the Li-Ion battery technology assets.

DRIVING COMFORT - FUN TO DRIVE

- The maximum torque of 226Nm is available immediately, getting a vivid take off
- The 5A Electric Powertrain delivers a maximum power of 70 kW constantly from 3000 to 9 000 rpm allowing strong accelerations.
- No Noises No vibrations in vehicle.

ADVANCED CHARGING SOLUTION

Infrastructure side

- The universal Quick Charger, a solution to plug the car to any electric supply in any circumstance
- Quick charge without external costly AC/DC converter
- Allows communities, fleets and customers to enjoy an affordable quick charge solution

Vehicle side

- fully integrated in the electric powertrain, thanks to its light and compact dimensions

MAINTENANCE - TOTAL COST OF OWNERSHIP**

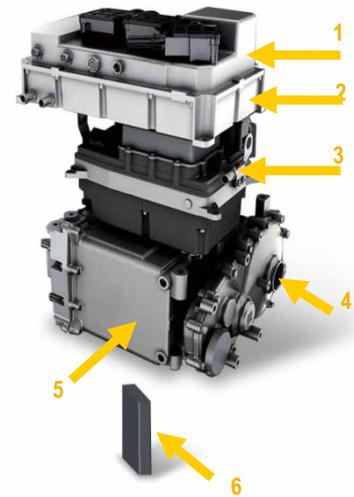
- "Maintenance free" for the Motor.
- Reducer oil : lifetime
- Same Powertrain cooling circuit as for ICE.

AVAILABLE TRANSMISSIONS

- A single fixed ratio of reduction for reducer: 9,32.

DRIVETRAIN LAYOUTS

- East-West available
- Three main modules , Junction Box, Power Electric Box and Electric Motoreducer can be packaged separately .



1. Junction box
2. Charger
3. Power electric box
4. Reducer
5. Synchronous electric motor
6. Supervisor



A RANGE OF APPLICATIONS

- B to D segment Cars
- LCV Cars

*Availability depends on required emission standards and vehicle characteristics
**On Renault vehicles under West Europe market conditions

5AM - SPECIFICATIONS

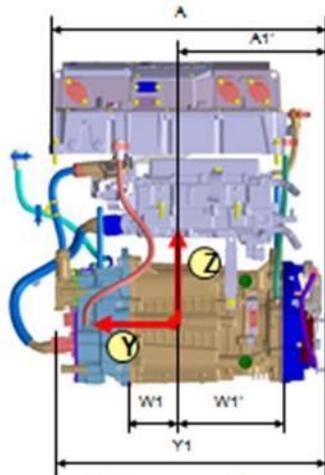
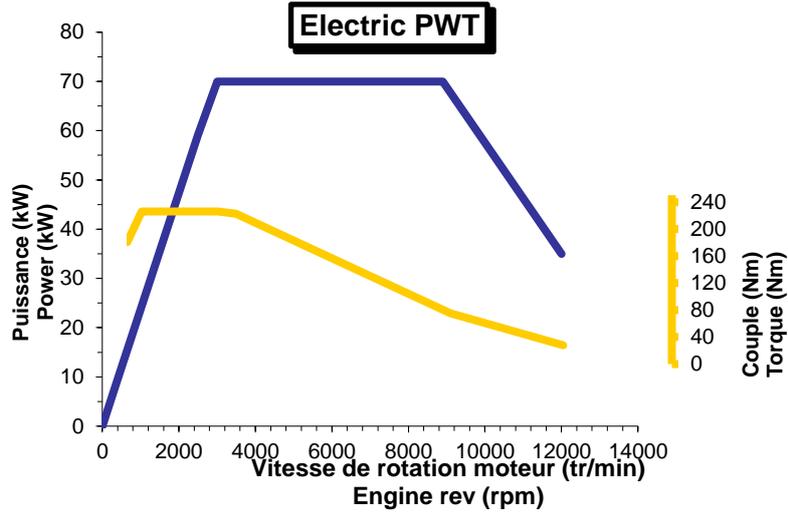
MAIN SPECIFICATIONS

	5A 44	5A 70	5A 65
Max. Power kW (HP)	44 (60)	70 (90)	65(84)
Speed at max Power (RPM)	3000 to 9000		
Max. torque, Nm (lbf.ft)	226 (222)		
Speed at max torque (RPM)	0 to 9000		
Reducer ratio	9, 32		
Dry Weight (kg)	140		

OTHER SPECIFICATIONS

Engine Cooling System	YES
Battery Cooling System	YES
Clutch system	No
Vacuum pump	Electrical pump
Air Cond Compressor	electrical pump
Electric Interface to Vehicle	CAN Bus

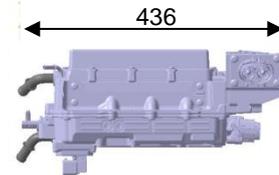
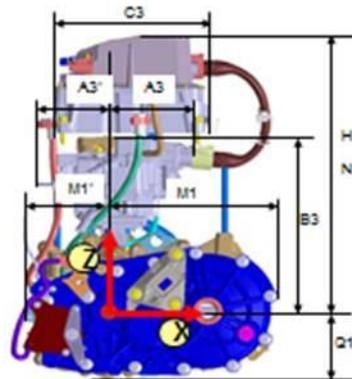
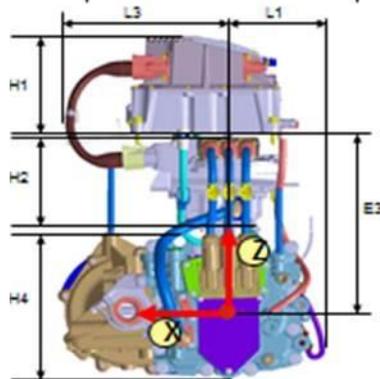
5AM – PERFORMANCE AND MAIN DIMENSIONS



Overall dimensions (mm)		
X	Y	Z
573.5	442	663

A1'	C1	C1'	W1	W1'	Y1
312.5	494.5	234.5	93	224.5	561.5

*Dimensions in millimeters (mm)



A3	A3'	B3	C3	E3	H1	H2	H3	H4	L1	L3	M1	M1'	N1	Q1
146	154	338	289	343	190	161	533	282	171	287	295	147	533	130

Dimensions in mm

(renault.powertrain@renault.com)

RENAULT
POWERTRAIN

Renault Powertrain
FR CTR A02 P 35
1, Avenue du Golf 78288 Guyancourt- France
Tel : +33 (0)1 76 87 52 50 – Fax : +33 (0)1 76 86 96 94
E-mail : renault.powertrain@renault.com