

SMART DRIVES FOR ELECTRIC COMMERCIAL VEHICLES

mo
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ELECTRICAL
DRIVE
ENGINEERING



MMA ELECTRIC MOTOR SERIES

- variable speed permanent magnet motor
- compact design & low weight
- low noise & vibration
- high power density & efficiency (92-94%)
- liquid cooled (water/glycol or oil)
- usable in on-/off-road and stationary applications
- freely placeable within the vehicle & no maintenance

MAXIMUM POWER IN SMALLEST DIMENSIONS

MOTEG electric motors have been developed specifically for use in mobile applications. They offer the best solution between power, size, weight, noise, efficiency and costs. Compared to standard induction motors, our electric motors of the MMA-Series are up to 6-times lighter, 75% shorter and up to 3 design sizes smaller.

- maximum torque available throughout the complete speed range
- customized shafts, flanges and coolant connectors possible
- IP 67 protection class
- operation with HV-frequency inverter, no DC/DC-converter necessary
- suitable battery supply voltage (DC): 300 V – 800 V
- available motor voltages (AC): 230 V_{RMS} & 400 V_{RMS}
- optional with rotor-position-sensor (sin/cos-encoder)



Type	Motor Voltage [VAC]	Motor Power [kW]	Rated Speed [min ⁻¹]	Rated/Max Torque [Nm]	Rated/Max Current [A _{RMS}]	Dimensions (l x w x h) [mm]	Weight [kg]
MMA 80-8-60-A-...-W2	400	5,2	3000	16,5/21,5	11,5/15,4	137 x 157 x 190	8,6
MMA 80-8-60-C-...-W2	230	5,2	3000	16,5/21,5	19,8/26,1	137 x 157 x 190	8,6
MMA 80-8-90-A-...-W2	400	4	1500	25,5/41,5	8,1/13,5	176 x 157 x 190	11
MMA 80-8-90-C-...-W2	230	4	1500	25,5/41,5	14,0/23,3	176 x 157 x 190	11
MMA 80-8-90-C-...-W2	400	7,9	3000	25/41,5	13,8/23,8	176 x 157 x 190	11
MMA 80-8-90-D-...-W2	230	7,9	3000	25/41,5	23,9/40	176 x 157 x 190	11
MMA 80-8-120-A-...-W2	400	10	3000	32/64	16,5/38	216 x 157 x 190	13,8
MMA 80-8-120-B-...-W2	230	10	3000	32/50	28,6/49,5	216 x 157 x 190	13,8
MMA 100-5-100-A-...-W2	400	18,8	3000	60/95	42/70	246 x 250 x 291	25,5
MMA 100-5-150-A-...-W2	400	28,5	3000	90/105	60/70	296 x 250 x 291	32,9

