

SMART DRIVES FOR ELECTRIC COMMERCIAL VEHICLES



eServo STEERING-PUMPS AND ELECTROHYDRAULICS FOR MOBILE APPLICATIONS

- Variable speed permanent magnet motor
- Compact design & low weight
- Low noise & pulsation due to special external gear pump design
- High power density & efficiency
- Liquid cooled (water/glycol or oil)
- Maximum pressure over whole speed envelope
- Low maintenance
- Usuable in on-/off-road application & freely placeable within the vehicle

MAXIMUM POWER IN SMALLEST DIMENSIONS



MOTEG steering- and electrohydraulic-pumps have been developed specifically for use in mobile applications. They offer the best solution between power, size, weight, noise, efficiency and costs. In combination with the MOTEG MMA-Series electric motors, that have been especially designed for use in mobile applications, they offer the optimum solution as either steering-pump or „electrohydraulic“ for the electrification of commercial vehicles.

- Operation with HV-frequency inverter, no DC/DC-converter necessary
- Suitable battery supply voltage (DC): 300V-800V
- Available motor voltages (AC): 230 V_{RMS} & 400 V_{RMS}
- Optional with rotor-position-sensor (sin/cos-encoder)
- Very high motor-/pump-dynamics & least possible energy consumption
- Patented sensorless, ON-Demand control software (optional)
→ low operating costs
- Connection to the CAN-Bus via J1939 and UDS (optional)
- IP 67 protection class
- Customizable coolant connectors

Typ	Displacement [ccm]	Motor Power [kW]	Motor Voltage [VAC]	Rated Speed [min ⁻¹]	Flow Rate** [l/min]	Pressure Nom/Max [bar]	Noise Level @150 bar [dB(A)]	Dimensions (LxBxH) [mm]	Weight [kg]
eServo CX*-AX1	07 10	5,2	230/400	3000	18,5 28,8	138/180 89/116	58	247x157x226 254x157x226	14 14
eServo CX*-BX1	07 10 13 15	7,9	230/400	3000	18,5 28,8 35,9 43,3	209/250*** 135/224 108/180 90/149	55	277x157x226 284x157x226 289x157x226 294x157x226	16 16 16 16
eServo CX*-CX1	10 13 15	10	230/400	3000	28,8 35,9 43,3	173/240*** 13/215 115/180	55	324x157x226 329x157x226 334x157x226	21,5 21,5 21,5
eServo CX*-DX1	15 22 32	19,4	230/400	3000	43,3 63 91,8	218/241*** 150/222*** 103/216	58	365x213x204 367x213x204 394x213x204	24,5 24,5 31,5
eServo CX*-DX1 (LV)	15 22 32	18,8	34/68	3000	43,3 63 91,8	241/241*** 180/222*** 124/252***	58	365x213x204 367x213x204 394x213x204	24,5 24,5 31,5
eServo CX*-EX1	15 22 32	23,4	230/400	3000	43,3 63 91,8	241/241*** 169/222*** 116/216***	58	390x213x204 392x213x204 419x213x204	29 29 35
eServo CX*-EX1 (LV)	15 22 32	22	34/68	3000	43,3 63 91,8	241/241*** 169/222*** 116/216***	58	390x213x204 392x213x204 419x213x204	29 29 35
eServo CX*-FX1	16 25 41	28,1	230/400	3000	45,3 71,8 115,4	301/265*** 190/200*** 118/225***	58	408x213x204 422x213x204 452x213x204	32,7 32,7 38,7
eServo CX*-FX1 (LV)	16 25 41	25	34/68	3000	45,3 71,8 115,4	265/265*** 200/200*** 104/211	58	408x213x204 422x213x204 452x213x204	32,7 32,7 38,7
eServo CX*-GX1	16 25 41	18,8	230/400	3000	45,3 71,8 115,4	265/265*** 254/200*** 158/225***	58	433x213x204 447x213x204 477x213x204	36,3 36,3 42,3
eServo CX*-GX1 (LV)	16 25 41	34,5	34/68	3000	45,3 71,8 115,4	265/265*** 200/200*** 125/208	58	433x213x204 447x213x204 477x213x204	36,3 36,3 42,3

X* = displacement, **@ rated speed @ rated pressure
*** = limit Pumpe other variants available