



ELECTRICAL DRIVE ENGINEERING



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
- usable 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 Power Take-Off (ePTO)" for the electrification of commercial vehicles.

- 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)
- 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

Тур	Displacement [ccm]	Motor Power [kW]	Motor Voltage [VAC]	Rated Speed [min ⁻¹]	Flow Rate** [I/min]	Pressure Nom/Max [bar]	Noise Level @150 bar [dB(A)]	Dimensions (LxBxH) [mm]	Weight [kg]
eServo CX*-80-60	7 8 10	5,2	230/400	3000	18,5 22,8 28,8	138/180 112/146 89/116	58	247 x 157 X 226 250 x 157 X 226 254 x 157 X 226	14 14 14
eServo CX*-80-90	7 8 10 11 13	7,9	230/400	3000	18,5 22,8 28,8 31,6 35,9 43,3	209/250*** 170/250*** 135/224 123/204 108/180 90/149	58	277 x 157 x 226 280 x 157 x 226 284 x 157 X 226 286 x 157 x 226 289 x 157 x 226 294 x 157 X 226	16 16 16 16 16
eServo CX*-80-120	10 11 13 15	10	230/400	3000	28,8 31,6 35,9 43,3	173/240*** 157/240*** 138/215 115/180	58	324 x 157 x 226 326 x 157 x 226 329 x 157 x 226 334 x 157 x 226	21,5 21,5 21,5 21,5
eServo CX*-100- 100	15 16 18 20 22 25	18,8	400	3000	43,3 45,3 51 57 63 71,8	217/220*** 207/250*** 184/240*** 165/230*** 149/230*** 131/220***	58	378 x 265 x 291 372 x 265 x 291 375 x 265 x 291 378 x 265 x 291 381 x 265 x 291 385 x 265 x 291	31 32 32 32 32 32 32
eServo CX*-100- 150	16 18 20 22 25	28,5	400	3000	45,3 51 57 63 71,8	250***/250*** 240***/240*** 230***/230*** 224/230*** 196/220***	58	422 x 265 x 291 425 x 265 x 291 428 x 265 x 291 431 x 265 x 291 435 x 265 x 291	39 39 39 39 39

^{*} X = Displacement, ** @ rated speed @ rated pressure



^{*** =} limit pump