

ELECTROHYDRAULICS FOR MOBILE & STATIONARY APPLICATIONS



eServo C13 DC1

eServo MMA 100

- Variable speed permanent magnet synchronous motor
- High- and Low Voltage
- Matching external HV/LV-Inverter of POCLAIN Group
- Compact design & low weight
- Low noise & pulsation due to special external gear pump design
- High power density / efficiency
- Liquid cooled (water/glycol or oil)
- Max pressure over wide speed range
- Usable in on-/off-road application & freely placeable within the vehicle

ONE TEAM -- ONE SOLUTION



MOTEG electrohydraulic pumps have been developed specifically for use in mobile applications. They offer the best solution between power, size, weight, noise, efficiency and cost. MOTEG eServo MMA100 in combination with Emsiso external inverters offer the next range of electro-hydraulics for electric commercial vehicles. MOTEG eServo MMA100 together with Emsiso inverters are offering easy to integrate real Plug & Play solution out of one hand for any mobile application.

- HV & LV Motors (48 VDC - 850 VDC battery voltage)
- Optimum sized HV/LV inverters
- Plug & Play solution: Motor/Hydraulic Pump/Inverter/Control Software
- High Voltage AC-Interlock (AC-HVIL)
- CAN 2.0B/J1939 communication with UDS (optional)
- Cybersecurity & funktional safety ready
- Very high motor-/pump-dynamics & lowest possible energy consumption
- Many motor-/pump-combinations
- Patented, sensorless on demand control software (optional) → low operation costs
- IP 67 protection class

Product Name	Displacement [ccm]	Motor Power [kW]	Motor Voltage [VAC]	DC-Link Voltage [VDC]	Rated Speed [min ⁻¹]	Flow Rate [l/min]	Rated-/Max Pressure [bar]	Noise @150 bar [dB(A)]	Size (LxBxH) [mm]	Weight [kg]
eServo CX*-DX1 (HV)	15	19,4	230/400	330/565	3000	43,3	218/241***	58	365x213x204	24,5
	22					63	150/222***		367x213x204	24,5
	32					91,8	103/154		394x213x204	31,5
eServo CX*-DX1 (LV)	15	18,8	34/68	48/96	3000	43,3	207/241***	58	365x213x204	24,5
	22					63	143/222***		367x213x204	24,5
	32					91,8	98/199		394x213x204	31,5
eServo CX*-EX1 (HV)	15	23,4	230/400	330/565	3000	43,3	241***/241***	58	390x213x204	29
	22					63	180/222***		392x213x204	29
	32					91,8	124/252***		419x213x204	35
eServo CX*-EX1 (LV)	15	22	34/68	48/96	3000	43,3	241***/241***	58	390x213x204	29
	22					63	169/222***		392x213x204	29
	32					91,8	116/216***		419x213x204	35
eServo CX*-FX1 (HV)	16	33	230/400	330/565	3000	45,3	301/265***	58	408x213x204	32,7
	25					71,8	190/200***		422x213x204	32,7
	41					115,4	118/225***		452x213x204	38,7
eServo CX*-FX1 (LV)	16	25,1	34/68	48/96	3000	45,3	265***/265***	58	408x213x204	32,7
	25					71,8	200***/200***		422x213x204	32,7
	41					115,4	104/211		452x213x204	38,7
eServo CX*-GX1 (HV)	16	37,7	230/400	330/565	3000	45,3	265***/265***	58	433x213x204	36,3
	25					71,8	254/200***		447x213x204	36,3
	41					115,4	158/225***		477x213x204	42,3
eServo CX*-GX1 (LV)	16	34,5	68	96	3000	45,3	265***/265***	58	433x213x204	36,3
	25					71,8	200***/200***		447x213x204	36,3
	41					115,4	125/208		477x213x204	42,3

* X = displacement
„other variants available“

*** pump limit