

ARIES i50



SAFE-TO-TOUCH TECHNOLOGY

48 V low-voltage: no high-voltage protection measures required

SPECIFICATIONS* ARIES i50 INBOARD - SHAFT DRIVE

Rated power	50 kW
Power supply voltage	48 V (44 V – 54 V full operation)
Max. voltage	58 V
Logic supply voltage	14 V
Motor weight incl. controller	44 kg
Weight gearbox 4:1	15 kg
Motor speed	4,350 – 6,500 rpm
Shaft speed with gearbox 4:1	1,087 – 1,625 rpm
Dimension motor incl. controller	Ø 254 mm; L: 265.5 mm
Dimension with gearbox 4:1	Ø 254 mm; L: 457.5 mm
Motor type	PM-assisted synchronous reluctance motor
Communication	CAN
Protection type	IP67
Max. system efficiency	95 % (motor: 97 %, inverter: 98 %)
Water cooling	Dual-circuit cooling, max. 35 °C flow temperature, 12 l/min



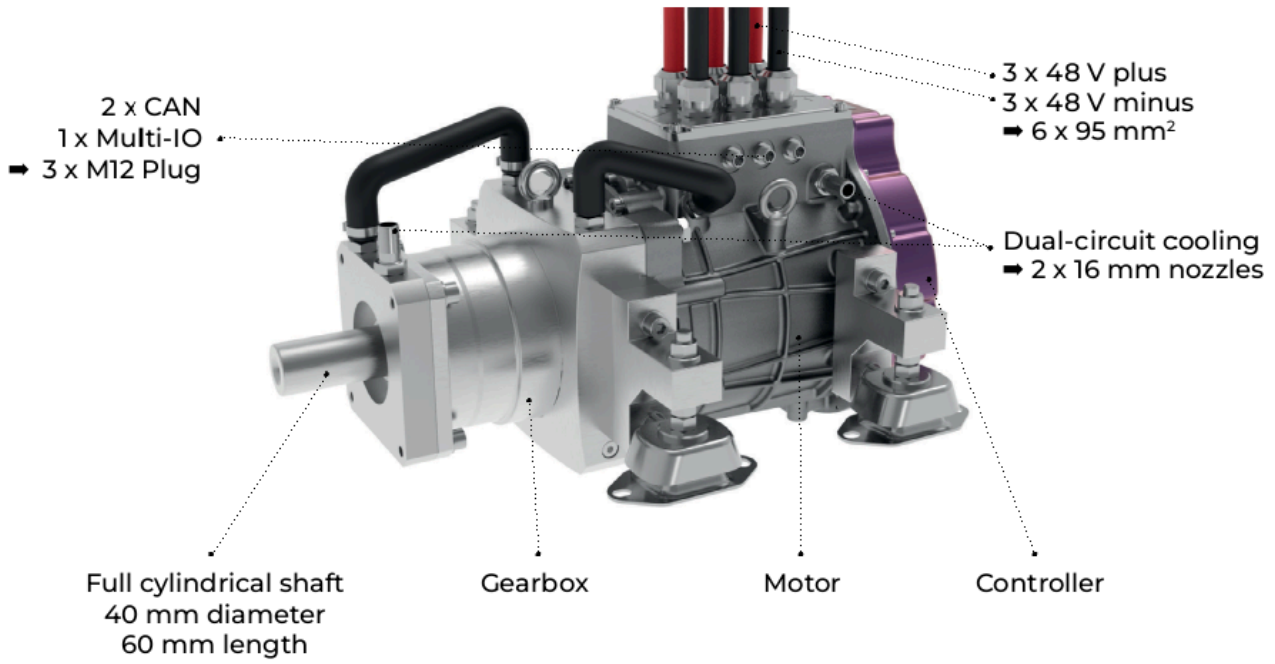
Integration and maintenance can be carried out easily because no high voltage safety measures are needed.



ARIES combines motor and controller in a single unit. This compact solution is easily integrated into boats, which reduces cabling efforts and saves installation space.

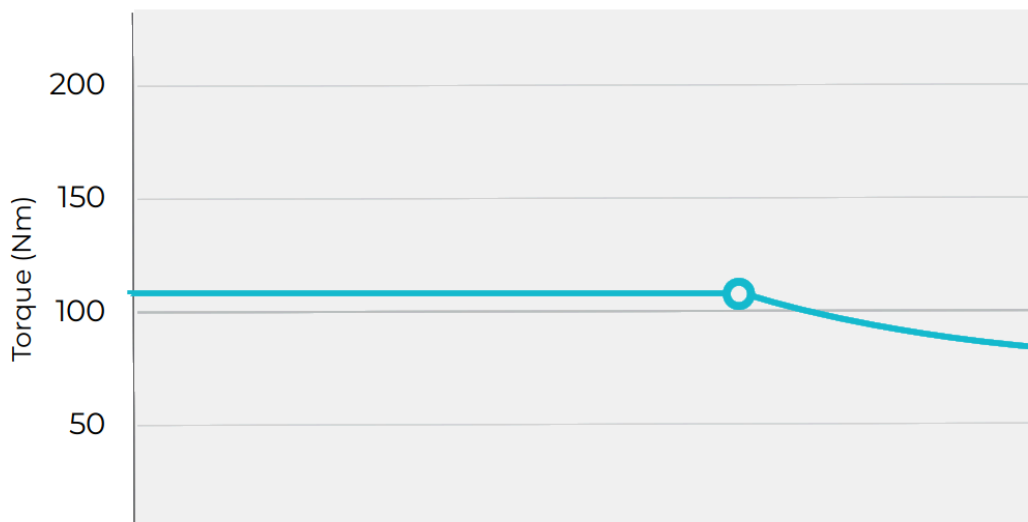


Low-voltage components make better use of battery energy. Measured system efficiency of more than 95 % at the optimum operating point. System efficiency is the combined efficiency of the e-motor (97 %) and controller (98 %).



Torque vs. Speed

— Rated Torque 110 Nm



Power vs. Speed

— Rated Power 50kW

