

powerMELA

По вопросам продаж и поддержки обращайтесь:

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Набережные Челны (8552)20-53-41

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powerMELA®

Powerful permanent-field synchronous motors

Baumüller has integrated the permanent magnet synchronous motor, which has proven itself for years as the drive solution powerMELA® in the mobile drive technology, in its controller concept b maXX 5000. The motor is available in 40, 80 and 140 kW and generates reluctance torque in addition to the electromagnetic torque as a result of the Lorentz force. When deployed together with the b maXX 5000, both the the electromagnetic and reluctance torque torques can be used, thus enabling an optimized operation and higher power density.



powerMELA® — Electric power and drive technology for mobile working machines and commercial vehicles

Baumüller makes use of its long-standing experience in motor development and in the production of electric motors and participates in powerMELA®, a cooperation project for the development of components for a hybrid drive system in cooperation with the company Sensor-Technik Wiedemann GmbH.

In the powerMELA® concept, a d.c. voltage of 750 volts is generated by means of a diesel engine using a combination

of generator and frequency converter. The Baumüller compact oil-cooled electric motors with highest levels of performance and torque are connected to this on-board network, thus driving the wheels either directly or by reduction gear. Hence, hydrostatic transmissions are replaced by a combination of high-efficiency electric drives.



Technical data PM4

	P_N [kW]	n_N [min⁻¹]	J [kgm²]	M₀ [Nm]	M_{0max} [Nm]
PM4-100BO67W30-6*	40	3000 - 6000	0.02	165	320
PM4-132K67F30-6	80	3000 - 6000	0.05	254	366
PM4-132L67F30-6	140	3000 - 6000	0.08	445	588

In addition, high-performance secondary units are also electrically operated instead of a hydraulic or rigid mechanical connection. Due to the favourable partial load behaviour in the system, savings in fuel consumption of more than 30 percent are possible with this approach.



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