

Concentric EDU



GENERAL FUNCTION

A coaxial EDU version has been developed for space-saving requirements with very high power densities. The installation space is used logically thanks to the correspondingly designed configuration. Here, the electric motor and the power electronics can be configured in modular form. During operation, the electric motor's output is transferred to the planetary gear system and a differential. A disconnection clutch can be optionally integrated for additional safety functions.



SPECIFICATIONS

PERFORMANCE

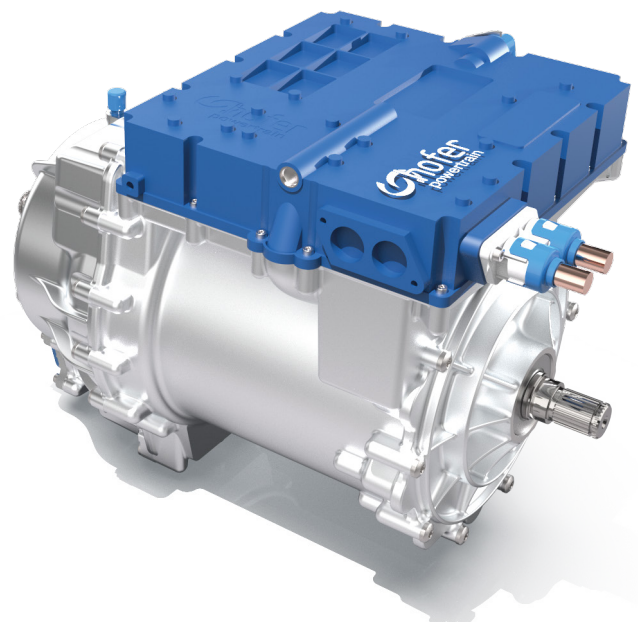
TYPE OF EM		PMSM	
PEAK POWER	P_{max}	80 (150*)	[kW]
PEAK EM TORQUE	M_{max}	215 (275*)	[Nm]
MAX. EM SPEED	n_{opmax}	10.000 (15.000*)	[rpm]
PEAK AXLE TORQUE	M_{Axle}	2.500 (3.250*)	[Nm]
MAX. AXLE SPEED	n_{Axle}	850 (1.272*)	[rpm]
CONT. POWER	P_{Cont}	36 (75)	[kW]
TRANSMISSION RATIO	i_{Total}	11,8	[-]
VOLTAGE RANGE	$U_{Min-Max}$	250-450	[V]
MAX. EFFICIENCY EDU	η_{max}	92	[%]

* Concept potential



PARAMETERS

- High power density
- 150 kW peak power
- 3.250 Nm peak axle torque





BENEFITS

- High system performance and efficiency
- Experience with system integration at hofer powertrain for many years
- Long durability
- Software inhouse
- Testing capacity



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