



**Fischer Panda®**

# Electric motors for drive systems

## Powerful electric motors from Fischer Panda

- Permanent magnet technology
- Highly efficient
- Brushless
- High-grade steel / aluminium housing
- High torque - even at low speeds
- Easy to maintain - suited for commercial applications
- Regeneration
- No oil used for cooling
- Maximum torque - from the first turn!
- Quiet - no gearbox
- Integrated thrust bearing up to 80 kW
- All performance ratings = on the shaft
- Fischer Panda "EasyBox" 48 V low voltage system
- Fischer Panda "EasyBox" 360 V high voltage system



Fischer Panda manufactures highly efficient and brushless permanent-magnet electric motors from 3.8 kW to 100 kW. They are available as underwater podded, shaft and auxiliary drive versions. The motors are sensorless.

Manoeuvring in the harbour is child's play because full torque is available from the motor throughout the entire speed range.

The underwater podded motors are made of high-grade steel and can be fitted to an existing rudder or steering system. These feature a 3-stage sealing ring which provides a high degree of security and the minimum of maintenance. Fischer Panda offers various mountings to suit various hull forms.

The versions are designed to be mounted within the vessel. They feature a double-walled aluminium housing which is water-cooled with an integrated thrust bearing (for versions up to 80 kW).

If the motor is installed as an auxiliary drive, a parallel hybrid version with an electromagnetic coupling is available. It is easy to install, economical and very quiet and can be operated on protected waters where combustion engines are prohibited. Sailing yachts with a fixed propeller can let the propeller rotate (drag) to recharge the batteries.

A maximum performance of 48 V / 20 kW or 360 V / 100 kW can be achieved on each drive shaft (depending on system). All motors can be combined using the Fischer Panda "Easybox" drive system. The installation is cost-effective and easy for a qualified technician. All systems are tested under load before being delivered to the customer.



Underwater podded motor



Motor with kort nozzle



## Underwater podded motor

Type	Version	Voltage	Speed	Performance	Torque	Weight	Operation
		[V]	[rpm]	[kW]	[Nm]	[kg]	
A06-140-6-AZ	Podded underwater drive	48	2500 / 1250	7.5 / 3.8	28	18,7	S1
A50-160-6-AZ	Podded underwater drive	48	1200	10	79	50	S1
B00-150-8-AZ	Podded underwater drive	48	600	10	160	76	S1
B00-150-8-AZ	Podded underwater drive	48	1200	20	160	76	S1
B00-300-8-AZ 20 kW	Podded underwater drive	48	600	20	320	120	S1
B00-360-8-AZ	Podded underwater drive	360	1200 / 1900	50 / 80	398	138	S1

Note: The propeller is only included when the motor is fitted with a kort nozzle.  
If this is not the case, the propeller must be purchased separately.

## Shaft motor



Type	Version	Voltage	Speed	Performance	Torque	Weight	Operation
		[V]	[rpm]	[kW]	[Nm]	[kg]	
A06-140-6-SH	Shaft drive	48	2500 / 1250	7.5 / 3.8	28	15	S1
A50-160-6-SH	Shaft drive	48	1200	10	79	44	S1
B00-150-8-SH 10 kW	Shaft drive	48	600	10	160	58	S1
B00-150-8-SH 20 kW	Shaft drive	48	1200	20	160	58	S1
B00-300-8-SH 20 kW	Shaft drive	48	600	20	320	96	S1
B00-360-8-SH	Shaft drive	360	1200	50	398	107	S1
B00-360-8-SH	Shaft drive	360	1900	80	398	107	S1
B40-430-8-SH	Shaft drive	360 / 420	1200	100	796	167	S1

## Parallel hybrid drive



Type	Version	Voltage	Speed	Performance	Torque	Weight	Operation
		[V]	[rpm]	[kW]	[Nm]	[kg]	
B00-150-8-SH	Parallel hybrid drive	48	600	10	160	71	S1
B00-300-8-SH	Parallel hybrid drive	48	600	20	320	103	S1

Disclaimer: The information contained here is to the best of our knowledge accurate at the date of publication. Please note that the data in this publication reflects the technical state at time of print. Due to our policy of continual product development, we reserve the right to alter technical specifications without notice.

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