

Short description

FAT 325 travel drive with electric motor



The new electric version of the FAT 325 travel drive is powered by an electric motor from the PGK series. The electric travel drive is designed for equipment with gross vehicle weights of 30 to 40 tonnes at a speed of 1–5 km/h and is ideal for crawler vehicles with a diesel-electric drivetrain. The special winding layout of the motor with permanent magnet technology ensures a high torque with a compact design. Owing to the minimal heating the machine can be operated with convection cooling reducing the installation effort compared with a conventional drive.

The development and manufacture of gearboxes and electric motors at the same location makes a decisive contribution to the high system integration of the new FAT 325. Other versions based on the FAT series are available upon request.

Features:

- High torque and power density
- Ingress protection to IP67
- Convection cooling
- Weight-optimised design due to the removal of an intermediate flange
- Service-friendly and low maintenance

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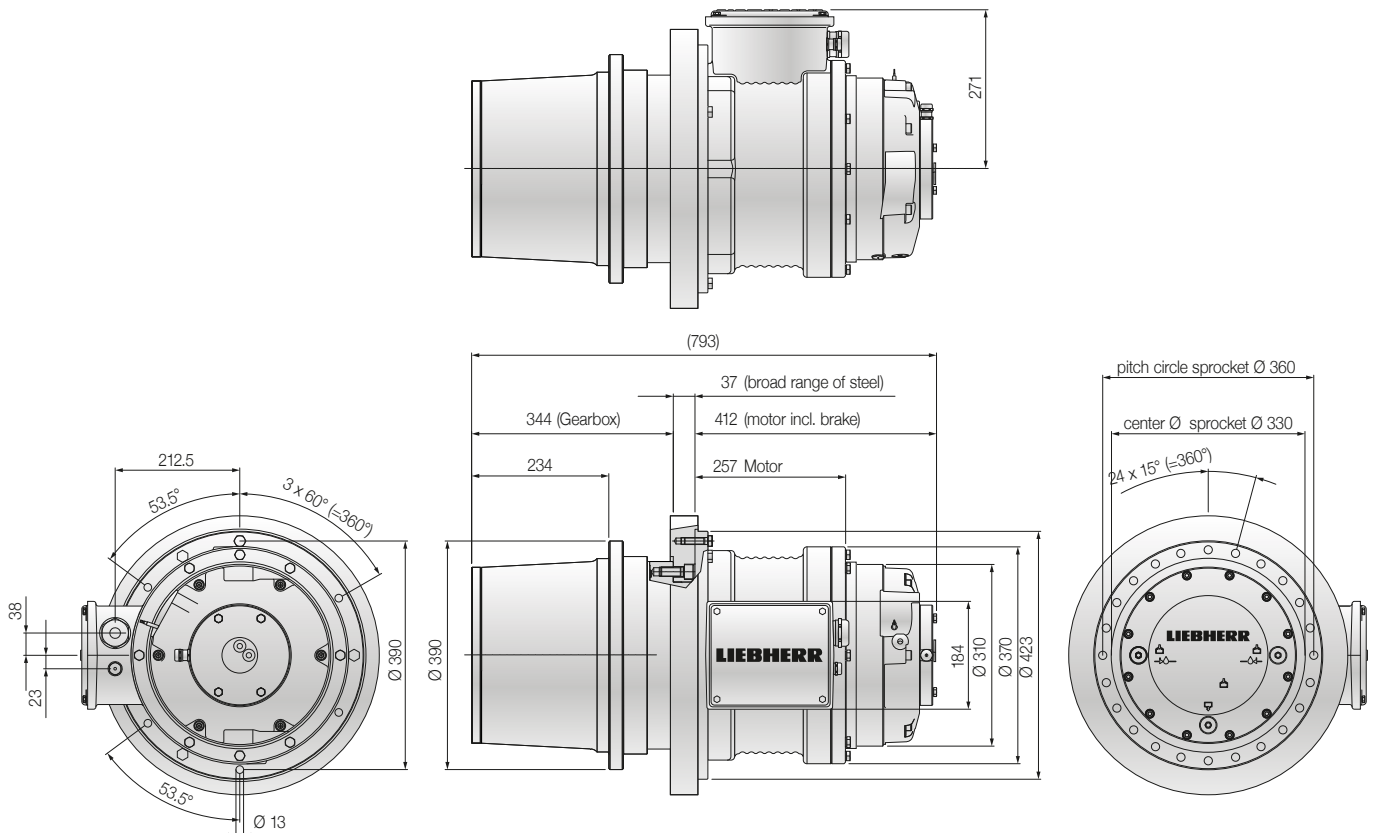
Version: 01

Technical data

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Electric motor series	PGK 18/10-J
Gearbox series	FAT 325
Rated voltage	376–400 V
Rated power of electric motor	13.5 kW at 1.000 rpm
Maximum torque motor	400 Nm at 75 A
Input speed	600–1,800 rpm
Protection class	IP67
Insulation category	F
Gear ratio	131.58
Max. output torque	48,000 Nm
Output speed	4.6–13.7 rpm
Ambient temperature	-20° C/+50° C
Total weight	337 kg
Overall length	793 mm



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Characteristic curve for FAT 325 gearbox and PGK 18/10-J motor

