

Short description

Electric motor **PGF12/30-C**



Liebherr high-speed motors are based on the latest permanent magnet synchronous technology and are characterized by their high power density.

As a result of their extremely compact dimensions, they are suitable for use in applications which were previously dominated by hydraulic systems. This is because they are replacing classic hydraulic motors for travel and hoist applications while the efficiency of such systems is being significantly increased at the same time.

The wide constant power speed range enables the motors to be used in various applications.

Features:

- Adjustment range from 2,000 to 14,000 rpm (factor 7)
- Extremely compact dimensions
- High level of dynamism thanks to low inertia torque

Date: 21.11.2016

Version: 01

Technical Data

Electric motor PGF12/30-C

Technical Data

Type	High-speed motor
Design	Permanent magnet synchronous motor
Series	PGF12/30-C
Frame size	132
Protection class	IP 65
Insulation category	H (180° C)
Rated power	60 kW S1-100 %
Rated voltage	Y 156/Y 480 V
Rated frequency	92.5/700 Hz
Rated current	305/90 A
cos ϕ	0.79/0.74
Rated speed	1,850/14,000 rpm
Nominal torque	309/35 Nm
Ambient temperature	-20 °C / +40 °C
Approval	CE
Type	B5
Weight	120 kg
Moment of inertia	ca. 0.0715 kgm ²
Diameter of flange	250 mm/180 mm/215 mm
DE Shaft	Internal gear DIN5480 N-26x1,25x30x19x10H

Torque-speed curve

