Abstract

Traction drive for elevator

A traction drive for an elevator comprises a sheave 5 for actuating a transmission means of the elevator and a synchronous motor, said synchronous motor comprising a stator 1 with at least one winding for generating a magnetic field rotating around a motor axis and a rotor 3 comprising at least one permanent magnet 7, said rotor being coupled to said sheave for transmitting a torque. According to the present invention said permanent magnet 7 is longer in the motor axis direction than the stator core and/or said rotor is composed from a plurality of separate permanent magnets 7 and separate magnetic sectors 6 provided alternating in a circumferential direction perpendicular to the motor axis to concentrate the magnetic flux in axial and/or radial direction.

Fig. 1