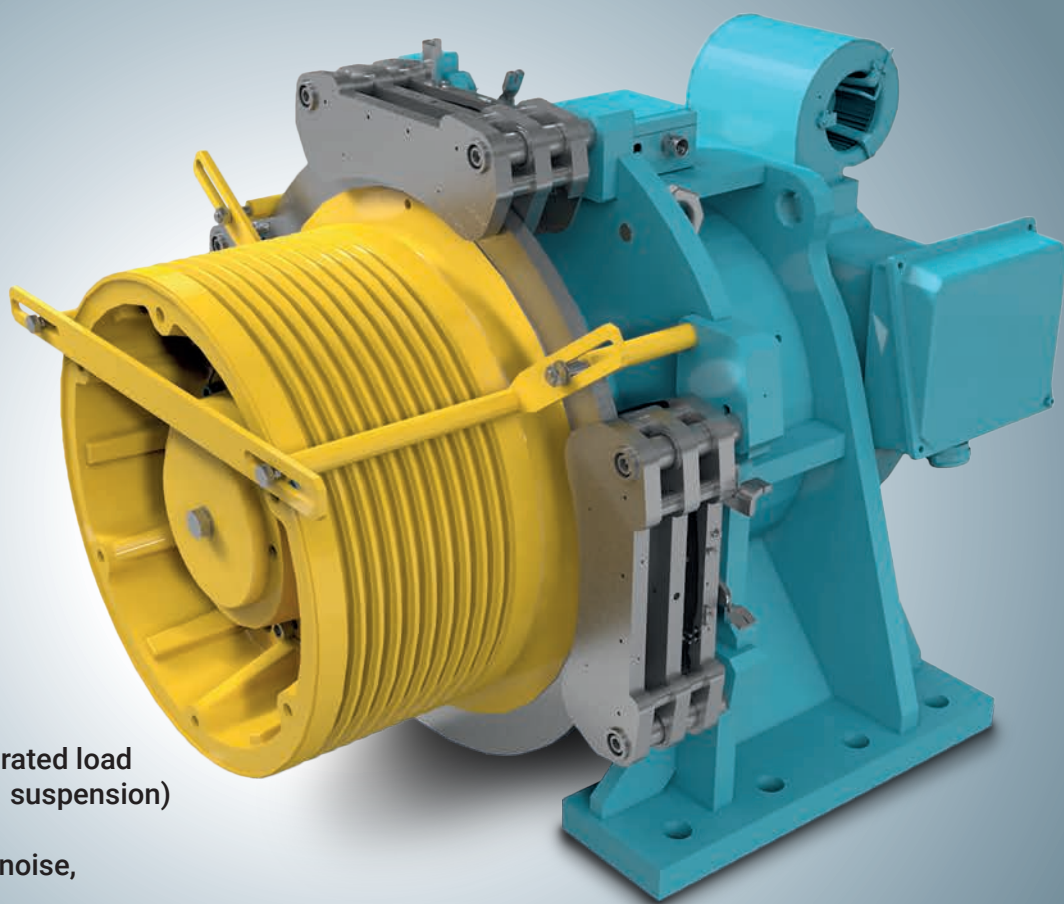


WSG-25

GEARLESS SYNCHRONOUS TRACTION MACHINE



- High performance:
up to 8800 lbs (4000 kg) rated load
and 16,4 ft/s (5 m/s) (2:1 suspension)
- High energy efficiency
- Extremely low operating noise,
excellent ride comfort
- Rope tension in all directions
- Customized bed plates available
- Compliant with ASME A17.1
- UL / CSA approved.

WSG-25

GEARLESS SYNCHRONOUS TRACTION MACHINE

- For fast elevators with an excellent ride comfort (suspension 2:1 up to 16,4 ft/s)
- Compact and extremely powerful
- High efficiency, reduced power consumption, extremely low-noise level
- Solid construction for permissible shaft loads FS at the traction sheave up to 200,000 N
- Safety brake system with electro-magnetical release, two/three multi-pole spring-operated brakes with a holding braking torque $2/3 \times 2400$ Nm, manual release as an option, contacts for brake control
- EC type-examination certificate according to EN 81-20/50, can be used for UCM solution
- Interchangeable traction sheave, positive locking with rotor, groove profiles according to lift system
- Synchronous motor, 22-pole, with high-efficiency permanent magnets, insulation class 155 (F), low noise ventilation, temperature control, terminal box
- Inverter compatible measuring devices (e. g. SENDIX; ECN 413; ERN 487)
- Degree of protection IP 23M/IP 12S
- Variable options regarding voltage, speed, torque, measuring system and traction sheave parameters
- Compliant with ASME A17.1

| Machine | | WSG-25.1 | | | | | | WSG-25.2 | | | | | |
|--|-----------------------|-------------------------|------------------------|-----------------------|-------------------------|------------------------|-----------------------|-------------------------|------------------------|-----------------------|-------------------------|------------------------|-----------------------|
| torque S1, (S3-40%) | M _N [Nm] | 1750 (2765) | | | | | | 2200 (3475) | | | | | |
| max. torque | M _{max} [Nm] | 4850 | | | | | | 6100 | | | | | |
| brake torque | M _{br} [Nm] | 2 x 2400 / 3 x 2400 | | | | | | 2 x 2400 / 3 x 2400 | | | | | |
| traction sheave | Ø D _T [mm] | 530 | | 650 | | 530 | | 650 | | | | | |
| for rated loads up to | Q [kg] | 3200 | | 2500 | | 4000 | | 3200 | | | | | |
| suspension | | table applies for 2:1 | | | | | | | | | | | |
| Motor currents applicable to 500...620 V DC link voltage | v [m/s] | n _N [rpm] | P _N [kW] | I _N [A] | n _N [rpm] | P _N [kW] | I _N [A] | n _N [rpm] | P _N [kW] | I _N [A] | n _N [rpm] | P _N [kW] | I _N [A] |
| | 1,0 | 72 | 13,2 | 36,5 | 59 | 10,6 | 36,5 | 72 | 16,6 | 45 | 59 | 13,6 | 45 |
| | 2,0 | 144 | 26,4 | 66 | 118 | 21,6 | 56 | 144 | 33,2 | 81 | 118 | 27,2 | 66 |
| | 3,0 | 216 | 39,6 | 103 | 176 | 32,3 | 80 | 216 | 49,8 | 120 | 176 | 40,5 | 91 |
| | 4,0 | 288 | 52,8 | 120 | 235 | 43,1 | 103 | 288 | 66,4 | 145 | 235 | 54,1 | 120 |
| | 5,0 | - | - | - | 294 | 53,9 | 120 | - | - | - | 294 | 67,7 | 145 |

Reference values. Achievable nominal load depends on specific elevator system data.