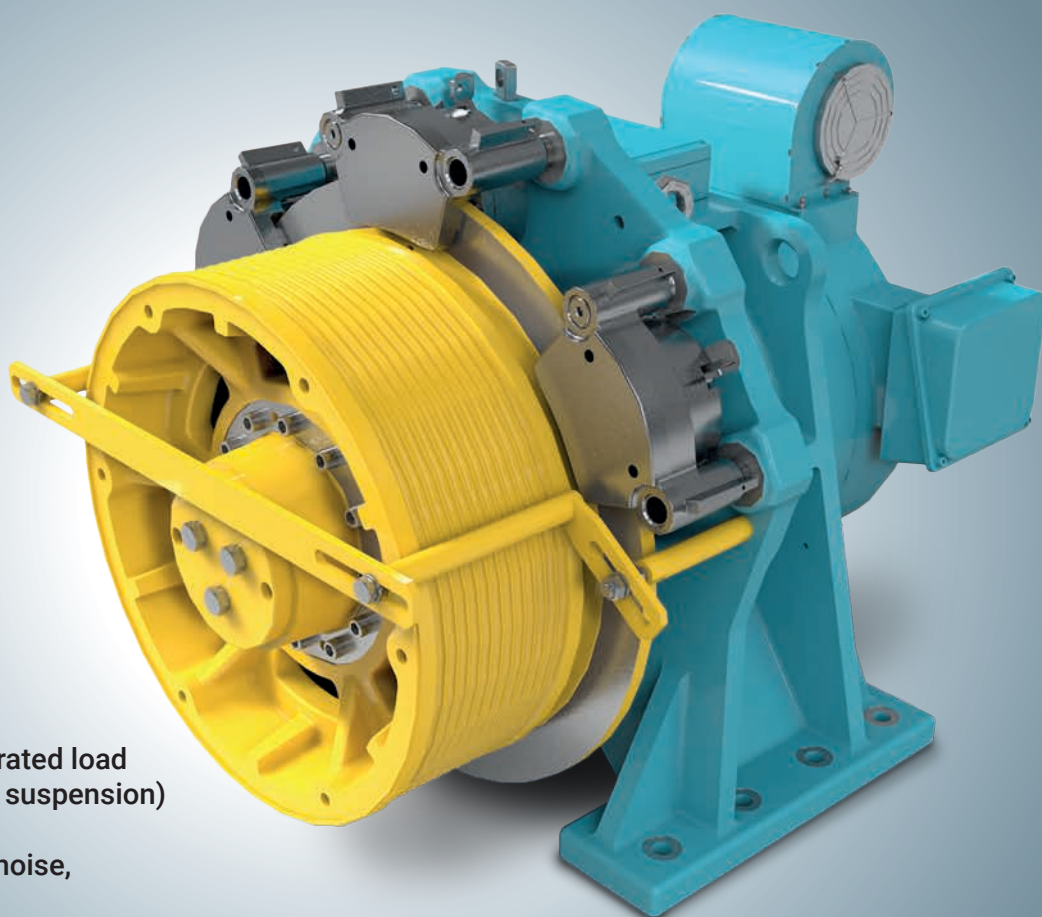


WSG-21

GEARLESS SYNCHRONOUS TRACTION MACHINE



- High performance:
up to 6600 lbs (3000 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-21

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 140,000 N
- Safety brake system with electro-magnetical release, two/three multi-pole spring-operated brakes with a holding braking torque $\frac{2}{3} \times 1,750\text{Nm}$, 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-21.2						WSG-21.3					
torque, S3-40%,	M _N [Nm]	1950						2600					
max. torque	M _{max} [Nm]	3900						5200					
brake torque	M _{br} [Nm]	2 x 1750 / 3 x 1750						2 x 1750 / 3 x 1750					
traction sheave	Ø D _T [mm]	530		650		530		650					
for rated loads	Q [kg]	up to 2000		up to 1600		up to 3000		up to 2500					
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	14,7	42	59	12,0	42	72	19,6	61,5	59	16,1	61,5
	1,6	115	23,5	65	94	19,2	53	115	31,3	98,5	94	25,6	75,5
	2,0	144	29,4	84,5	118	24,1	65	144	39,2	123	118	32,1	98,5
	2,5	180	36,8	84,5	147	30,0	84,5	180	49,0	123	147	40,0	123
	3,0	216	44,1	121	176	35,9	84,5	216	58,8	164	176	47,9	123
	4,0	288	58,8	141	235	48,0	121	288	78,4	197	235	64,0	164
	5,0	-	-	-	294	60,0	141	-	-	-	294	80,0	197

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