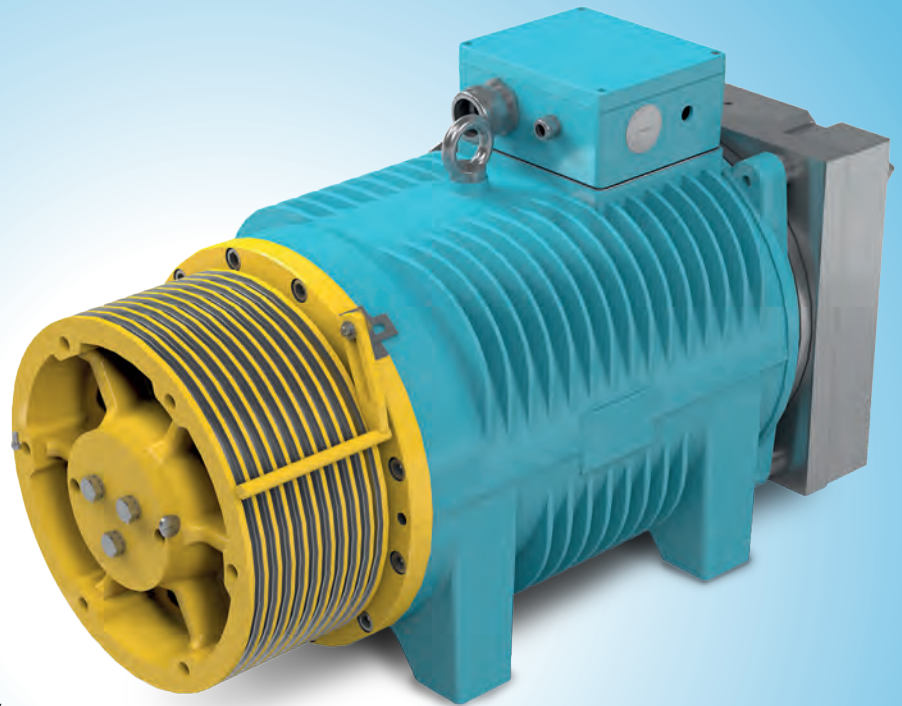


WSG-LF.S

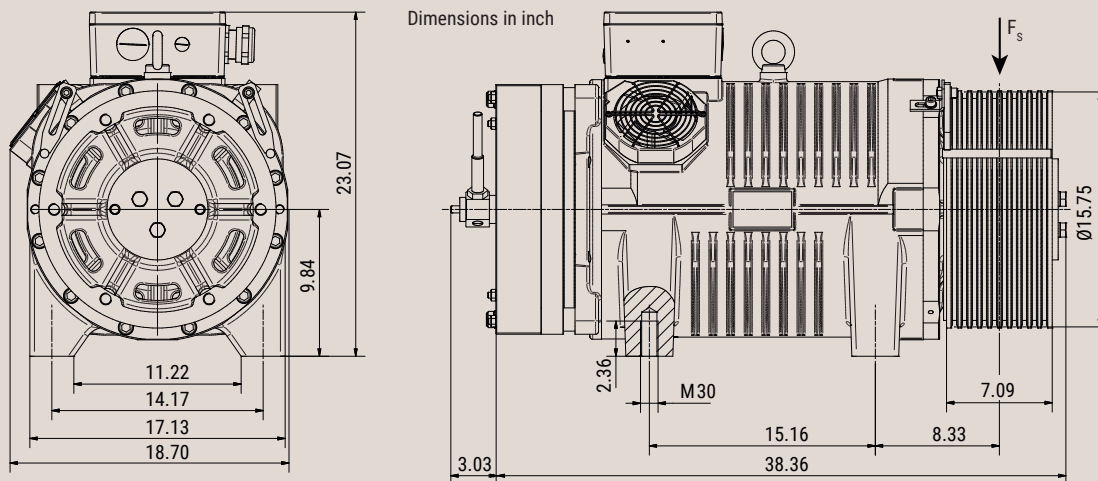
COMPACT GEARLESS MACHINE FOR MR AND MRL APPLICATIONS



- ACPM Synchronous Gearless Machine for the North American Market
- "Barrel" Type for Machine Room and Machine-Room-Less Applications
- According to ASME A17.1/B44 with TÜV certification for UL/CSA electrical standards
- Deflector Sheaves and Customized
- Bedplates available
- Shaft loads up to 22 500 lbs
- Overhead, Basement and Side-mount Configurations
- Both Double-Wrap & Single-Wrap possible
- Up to 3500 lbs Capacity, 1:1 Roping
- Up to 6000 lbs Capacity, 2:1 Roping

WSG-LF.S

COMPACT GEARLESS MACHINE FOR MR AND MRL APPLICATIONS



- Machine weight less than 2,000 lbs
- Rope tension in all directions
- Modular system allows a lot of options of the machine in various configurations
- ECN 1313 EnDat Encoder as standard with 2048 pulses per revolution
- Low-vibration and silent thanks to a perfectly matching magnet design
- For Low-Rise and Mid-Rise Applications. Up to 350' Travel
- Safety brake system with electro-magnetical release, manual release as an option, contacts for brake control, dust cover for the brake air gap
- Independent brake system holds 125 % rated capacity (with Separate Emergency and Standard Braking)
- Synchronous motor, 20-pole, with high-efficiency permanent magnets, insulation class 155 (F)
- Up to 5 - 10 mm Ropes with U-Groove for Double-Wrap & 10 - 10 mm Ropes with V-Groove for Single-Wrap

Motor type		WSG-LF.S
torque (S3-40 %)	M_N [ft-lbs]	1364
max. torque	M_{max} [ft-lbs]	2729
brake torque	M_{br} [ft-lbs]	2 x 1512

Application data	Roping	1 : 1								
	for Car Speed	200 fpm			350 fpm			500 fpm		
Capacity		n_A [rpm]	P_A [hp]	I_A [A]	n_A [rpm]	P_A [hp]	I_A [A]	n_A [rpm]	P_A [hp]	I_A [A]
voltage Suitable for 460 V Inverter	2500 lbs	49	8.7	42.4	85	15.3	42.4	121	21.9	42.4
	3000 lbs		10.5	50.9		18.4	50.9		26.2	50.9
	3500 lbs *		12.2	59.9		21.1	59.9		30.6	59.9

Application data	Roping	2 : 1								
	for Car Speed	200 fpm			350 fpm			500 fpm		
Capacity		n_A [rpm]	P_A [hp]	I_A [A]	n_A [rpm]	P_A [hp]	I_A [A]	n_A [rpm]	P_A [hp]	I_A [A]
voltage Suitable for 460 V Inverter	3500 lbs	97	14.2	34.8	170	23.2	57.7	243	33.2	57.7
	4000 lbs		16.4	40.1		26.8	66.5		38.3	66.5
	4500 lbs		18.3	44.7		29.9	74.1		42.7	74.1
	5000 lbs		20.3	49.7		33.2	82.4		47.4	82.4
	6000 lbs		24.2	59.2		39.6	98.3		56.5	98.3

Reference values with 50 % counterweight. Achievable power and current depends on specific elevator system data.
1/2" Ropes & 5/8" Ropes available in limited applications; solutions determined by application calculations. (This requires a larger traction sheave diameters. However, this reduces the maximum possible loads.)

* Rise above 200 feet with 3500 lbs 1:1 applications may cause accelerated rope wear. Other Sheave Sizes available.

WSU-LF.S-08127

WSU-LF.S-08239