

**STAR**K  
ELEVATORS



**Elevator Gearless  
Machines**

## **The power is not only power, It reflects more**

Experience, creativity and our ambitions made an outstanding result which we call it Stark. That is literally translation of Power in German.

Stark gearless motors are manufactured by using high-tech facilities. It is covering all required specification and application for customers.

Stark gearless motor is trying to create a soft and safe vertical movement.

Stark gearless motors based on cutting edge technology of production provide the best solution for both MR and MRL elevators. As always, "Safety goes First". Thus we sourced and selected the highly reliable brakes with high technology that guarantees your full safety in your journey (ups and downs).

Stark gearless motors are manufactured in compliance with international standards (EN81-50, EN81-20)

## Product Description

**Housing:** Stark permanent magnet synchronous machine designed and produced with high quality alloy. It is developed in special design with heatsink. It is developed for various roping system applications.

**Sheaves:** High quality traction sheave with special alloy, designed for the optimum durability. It can be changed optionally based on customer's requested specification such as surface hardening.

**Brakes:** Dual action and dual circuit braking system. Powerful protection system against over-speed car movement and braking element against unintended car movement (UCM). The brakes are in compliance with EN81-50, EN81-20 and CE marking.

**Terminal Box:** Easy access terminal box to ensure good grounding and easy connections.

**Encoder:** Wide range of high-tech encoder with wide range of cable length (5m, 7m, 15m). (Heidenhein brand)

**Sheave Guard:** It covers all the requirements of EN81 in different installation types. Adjustable design.

**Shaft:** It is produced with high strength and high fatigue resistance alloys.

**Bearings:** High quality Austrian brand bearing.

**Winding:** High-tech isolation class F.

**Magnet:** Durability and high thermal resistant in shocks.

## Technical Data:

	Type of Machine	Unit	STR-S	STR-S	STR-S	STR-S	STR-M	STR-M	STR-M	STR-M
			450-10	450-16	600-10	600-16	800-10	800-16	1000-10	1000-16
Motor Specification	Rated Load	kg	450		630		800		1000	
	Rated Speed	m/s	1	1.6	1	1.6	1	1.6	1	1.6
	Rated Power	kw	3.2	5	4.1	6.4	6.8	9	7	11
	Rated Current	A	6.8	9.7	8.3	12.1	11.8	17.2	13.6	22
	Rated Voltage	V	370	370	370	370	370	370	370	370
	Rated Frequency	Hz	20	32	20	32	20	32	20	32
	Rated Torque	N.m	250		320		450		550	
	Machine Weight	kg	194		202		228		236	
	Elevator Static Load	kg	4400				5200			
	Axel Load	kg	2200				2600			
Sheave Data	Sheave Diameter	mm	320							
	Groove Type		U+ Undercut							
	Number of Grooves		6				8			
	Rope Diameter	mm	8							
	Groove Distance	mm	12							
	Groove Angel	degree	30							
	Undercut Angel	degree	100							
Brake Data	Model Type		Evo							
	Brake Torque	N.m	2*250		2*330		2*450		2*550	
	Brake Voltage	VDC	2*(207/103)		2*207		2*207		2*(207/103)	
	Brake Current	A	2*(0.62/0.31)		2*0.4		2*0.4		2*(0.6/0.3)	
	Brake Air Gap	mm	0.2-0.4							

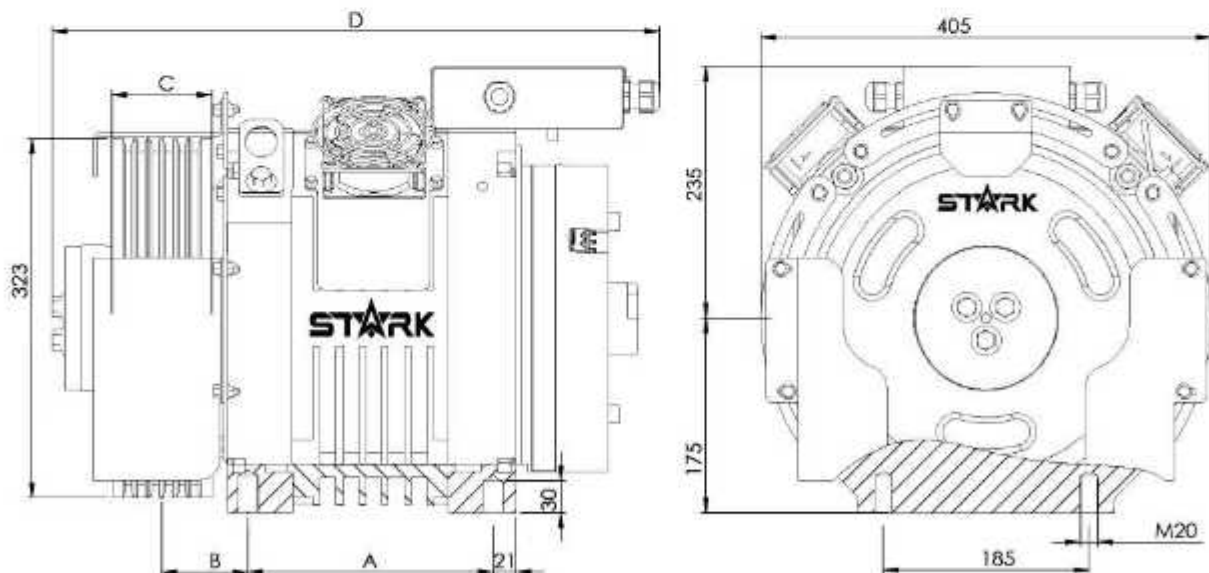
- ▶ Start per hour: 240
- ▶ Insulation Class: F
- ▶ Duty type: S3-40

- ▶ Degree of Protection: IP33
- ▶ (Winding Protection/ PTC)
- ▶ Standard : En81 - 20/50

- ▶ CE Certificate

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## Dimension Drawing:



Motor Type	A	B	C	D
STR-S	220	82	90	560
STR-M	270	82	115	610

- ▶ Dimensions in millimeters

**Stark** is an innovative gearless motor designed to elevate your elevator's performance to the next level. It is the perfect solution for modernizing your elevator system, delivering high-efficiency, energy savings, and a smoother, more reliable ride for passengers.

The compact design of **Stark** Motor allows for easy installation and maintenance, and its control system ensures accurate positioning and smooth operation. Additionally, the motor's low inertia and high torque capacity enable it to start and stop quickly, which makes a fast and reliable experience.



Our solutions are like always reliable, cost-effective, and eco-friendly that will take your experience to new heights of performance and efficiency.

Trust **Stark** to power your elevator and elevate your business.

With its cutting-edge design and advanced technology, **Stark** is engineered to provide superior performance in terms of torque, speed, and power consumption. It features a permanent magnet synchronous motor (PMSM) with high torque density, low vibration, and noise levels, making it an ideal choice for high-rise buildings, commercial complexes, and other demanding applications.



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**We Elevate You  
In The Way That You Want**



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SCAN ME

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