SMD125

Gearless direct drive, fully integrated into the pulley – for maximum installation space

Applications

Integrated directly **into the pulley**, this groundbreaking solution eliminates all the disadvantages of conventional geared motors, which are usually flanged to a pulley.

The result? A compact, efficient drive unit without compromising performance. A groundbreaking technology that takes efficiency and reliability to a new level.

Designed for belt applications with a high number of start/stop cycles.



Features & Benefits

- **Compactness:** Since no external gearbox is required, the size of the overall system is significantly reduced. This enables space-saving integration.
- **Efficiency:** The direct drive eliminates the energy loss normally caused by the gearbox. This leads to higher overall efficiency of the drive system.
- **Low maintenance:** Traditional geared motors require regular maintenance, especially of the gearbox. The gearless direct drive reduces the number of moving parts. Maintenance is not required.
- **Noise reduction:** Geared motors produce noise due to friction and wear. The gearless direct drive eliminates vibrations and noise, resulting in reduced noise emissions.
- **times:** By integrating the motor directly into the pulley, the gearless direct drive enables faster transmission of torque and improved response time.
- **Precision:** The direct connection between motor and pulley enables precise control and positioning.

Technical data

Designation		SMD125
Rated voltage	VDC	48
Rated power	W	507
Rated speed	m/s	4.4
Rated torque	Nm	8.5
Maximum torque	Nm	31.1
Rated current	Arms	13
Maximum current	Arms	46.6

	Configuration
Rotary encoder	magnetic encoder
Maximum noise level	< 49 dB(A), application dependent
Length of motor cable	900 mm
Tube dimensions	Ø 149 x 14.5 mm
Tube material *	Galvanized steel
Ambient temperature *	0 °C ... 65 °C
Protection class *	IP54

* other versions on request

Motor cable and encoder connections

Signal	Presentation
Motor phase U	open ends Plug version on request
Motor phase V	
Motor phase W	
n.c.	
GND 5 V	
Supply 5 V	
Hall 1	
Hall 2	
Hall 3	
A track	
B track	
GND	

Dimensions

