

System solutions for every lift.
Everywhere.

AS320SE INVERTER FOR MODERNISATION

NEW



 **SCHMERSAL**
BÖHNKE+PARTNER

AS320SE

SMART CONTROL FOR MODERN LIFT SYSTEMS

The AS320SE is a speed-controlled inverter designed for lift applications. It controls the traction motor and ensures smooth and reliable system operation.

With its integrated design, the AS320SE simplifies installation and supports reliable performance in daily operation. Designed for modernisation and new installations, the AS320SE combines essential functions in a compact and integrated solution.

WHAT IT DOES

- Controls motor speed for lift movement
- Enables smooth starting and stopping
- Supports precise positioning and direct stop
- Ensures stable operation

WHY IT MATTERS

Smooth operation

- Smooth start without load sensor
- Controlled speed and precise stopping

→ **Consistent and reliable lift performance**

Compact integration

- Built-in EMC filter and reactor
- Reduced external components

→ **Optimised space and simplified system design**

Simplified setup

- Self-learning functions

→ **Reduced commissioning effort**



AS320SE

KEY BENEFITS

SIMPLIFIED INSTALLATION

- Contactor-less design eliminates the need for motor contactors
- Integrated AC reactor and EMC filter

→ **Reduced wiring and fewer external components**

RELIABLE LIFT PERFORMANCE

- Smooth start without load sensor
- Position control with direct stop

→ **Stable operation and accurate positioning**

INTEGRATED SAFETY

- STO (Safe Torque Off, SIL 3)
- Active electrical braking function

→ **Increased operational safety**



FLEXIBLE SYSTEM INTEGRATION

- Supports multiple communication interfaces
- Compatible with different control modes

→ **Easy integration into various lift systems**

EFFICIENT COMMISSIONING

- Self-learning functions for motor and system

→ **Reduced setup effort on site**

INTEGRATED FUNCTIONS SYSTEM

CONTROL AND I/O INTEGRATION

- Multi-functional I/O interface with digital and analogue inputs and outputs.
- Supports flexible integration into lift control systems.



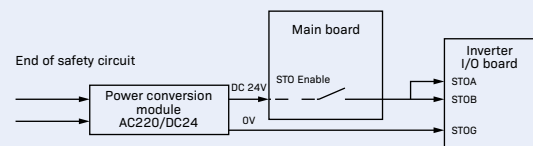
COMMUNICATION AND CONTROL

- Supports CANopen (CiA417), Modbus RTU and DCP communication.
- Allows control via multi-speed signals or analogue values.



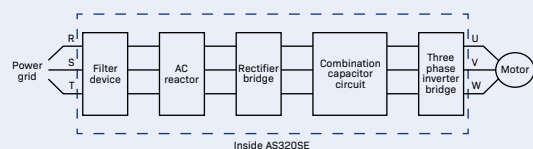
CONTACTOR-LESS SYSTEM DESIGN

- No motor contactors required between inverter and motor.
- Integrated safety functionality via STO.



INTEGRATED EMC SOLUTION

- Built-in AC reactor and filter compliant with EN 12015 and EN 12016.
- Reduces external components and simplifies installation.

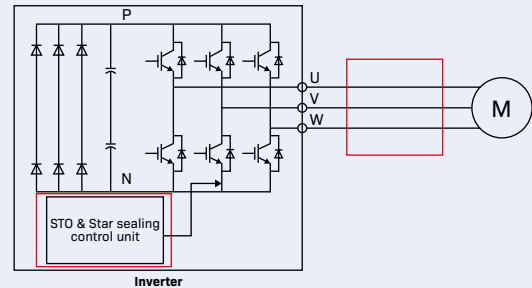


INTEGRATED FUNCTIONS

DRIVE AND SAFETY

ACTIVE ELECTRICAL BRAKING FUNCTION

- Active damping of motor movement by short-circuiting the three motor phases
- Prevents unintended movement, even in the event of brake failure



ENCODER SUPPORT

- Compatible with multiple encoder types:
 - SINCOS
 - Incremental (ABZ 5V / 12V)
 - EnDat absolute encoder

SOFTWARE FUNCTIONS

- Rescue operation with single-phase power supply
- Brake force detection
- Position control with direct stop
- Smooth start without load sensor
- Self-learning functions for system optimisation



AS320SE

PRODUCT RANGE

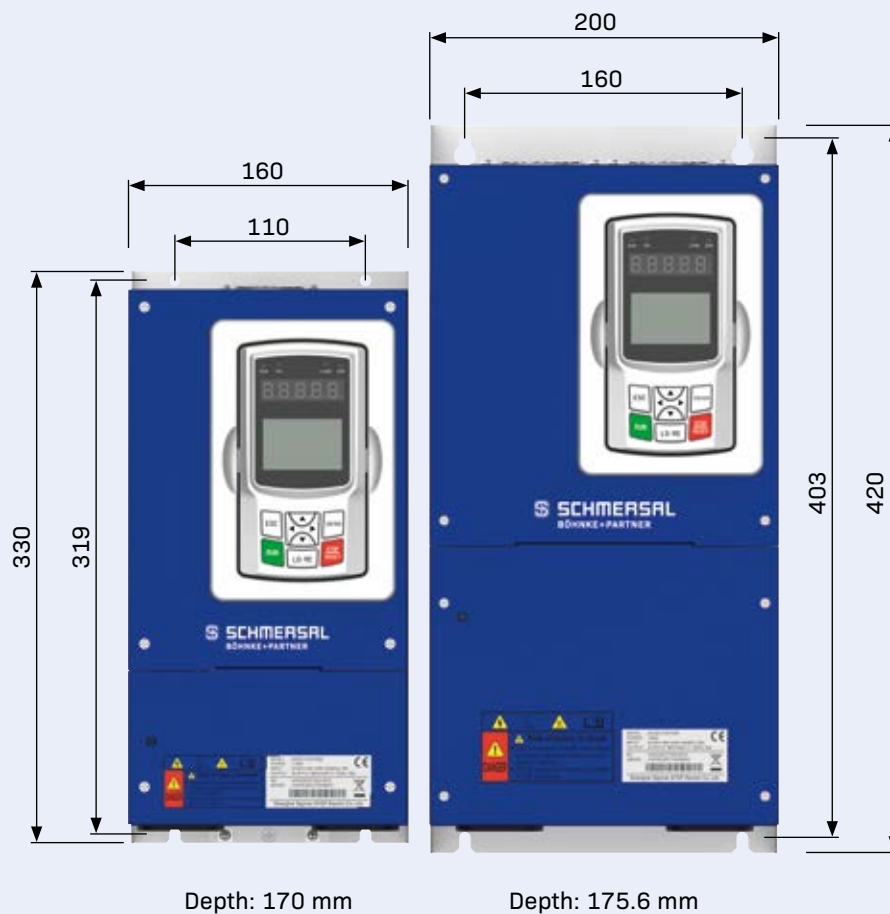
The AS320SE series covers a wide range of applications with power ratings from 5.5 kW to 22 kW. Designed for use in standard 3-phase systems, the inverter supports input voltages from 380 V to 440 V at 50/60 Hz.

AVAILABLE MODELS

- 5.5 kW
- 7.5 kW
- 11 kW
- 15 kW
- 18.5 kW
- 22 kW

COMPACT DESIGN

The AS320SE is available in two compact housing sizes:



AS320SE

TECHNICAL DATA

Input voltage	Cooling	Standards and compliance	Motor power in kW	Output current in A	Dimensions in mm (W × H × D)	Type designation	Material no.
3-phase 380 ... 440 V, 50/60 Hz	Fan cooled	EN12015 EN12016 CE certified	5.5	13	160 × 330 × 170	4T05P5SE	103063567
			7.5	18	160 × 330 × 170	4T07P5SE	103063568
			11	27	200 × 420 × 175.6	4T0011SE	103063569
			15	34	200 × 420 × 175.6	4T0015SE	103063570
			18.5	41	200 × 420 × 175.6	4T18P5SE	103063571
			22	48	200 × 420 × 175.6	4T0022SE	103063572

Scan the **QR code** or visit products.schmersal.com to access the online catalogue and find out more about the numerous lift components.



Find out more:



SYSTEM SOLUTIONS FOR EVERY LIFT. EVERYWHERE.

Our customers lift systems are at the focus of our attention. Regardless if it's a new system or a modernisation – with our years of experience we identify an individual or standardised solution according to your requirements. Our common goal is to guarantee the safe movement of the lift system for the users.

Schmersal Böhne + Partner is a member of the Schmersal Group. With its products, the ownermanaged Schmersal Group has dedicated itself to the safety of people and machines for many decades. The company was founded in 1945, and is represented by seven manufacturing sites on three continents and with its own companies and sales partners in more than 60 nations. In the demanding field of machine safety the Schmersal Group is one of the international market and competence leaders. Based on a comprehensive product portfolio, the company's approximately 2000 employees develop and plan complete safety-related system solutions.

For over 50 years we have supplied high-quality components for the lift industry. With the acquisition of Böhne + Partner to the Schmersal Group, we took over the system concept to our lift area. Since then, the product portfolio – with control systems and components – includes all necessary elements for equipping a lift system from electrical point of view.

We supply lift manufacturers with our products all over the world. The Schmersal Group has four production plants in Germany and one each in Brazil, China and India. We offer the flexibility of a medium-sized company, combined with the international presence of a company group.



CONTROL SYSTEMS



COMPONENTS FOR LIFT CONSTRUCTION



CONTROL SYSTEM ASSEMBLY



SCHMERSAL
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The details and data referred to have been carefully checked.
Technical amendments and errors possible.

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