

ac motoren

***ELECTRIFY
YOUR SUCCESS.***

BOLD IDEAS FROM DAY ONE

We stand for electrifying reliability – with strong products, dynamic services, and genuine closeness to customers, partners, and employees.

DYNAMIC

OPEN

DETERMINED

Founded in 1998

With a bold, innovative procurement strategy and clear values, Jürgen Klußmann created the identity that continues to define our family business to this day.

Relocation in 2012

With the new 16,000 m² logistics center in Eppertshausen, we are setting new benchmarks in availability and efficiency.



Generational transition in 2014

Timo Klußmann takes over in the second generation – and continues to develop AC Motoren with bold ideas, clear values, and a strong mandate for the future.



Anniversary in 2023

To mark our 25th anniversary in 2023, we delivered a comprehensive rebranding and key digitalization initiatives that set important momentum for the future – modernizing processes, evolving our brand presence, and laying the foundation for the decades ahead.

TURNING MILESTONES INTO ADDED VALUE

- **Maximum availability**

With our extensive inventory, we guarantee fast delivery and maximum availability. Whether standard sizes or custom solutions – we keep the right motors in stock for you.

- **Custom adaptations that fit perfectly**

Do you need special modifications or custom versions? Our experienced team is here to support you in adapting and modifying your electric motors to meet your specific requirements.

- **Digital. Fast. Personal.**

Thanks to the optimal integration of digital tools, you can place orders, check availability, or access product information with just a few clicks, while also benefiting from short response times and dedicated contacts.



FIGURES & FACTS

65,000+

Motors are in stock in all sizes and variants

In our warehouse, you'll find what keeps your machines moving. We deliver what drives you and professionally configure electric motors to your specifications.

100+

Team members who give their all every day

Our dedicated employees give their all for your motor every day. With our personal expertise, we support you to keep your machines running.

1,800+

active partnerships that we proudly maintain

Thanks to our fast response times and short delivery times, we are a reliable partner for our customers—even in challenging project situations.



MAXIMUM VARIETY, UNCOMPROMISING PERFORMANCE.

- Frame sizes 56–400
- Power ratings up to 10,000 kW
- 2- to 8-pole and pole-changing motors
- Voltages up to 10,000 V
- Efficiency classes IE1–IE5
- All IEC mounting arrangements
- Paint systems C2–C5
- Cooling types: TEFC, TENV, TEFV, TEAO

THE PERFECT DRIVE FOR YOUR PROJECT



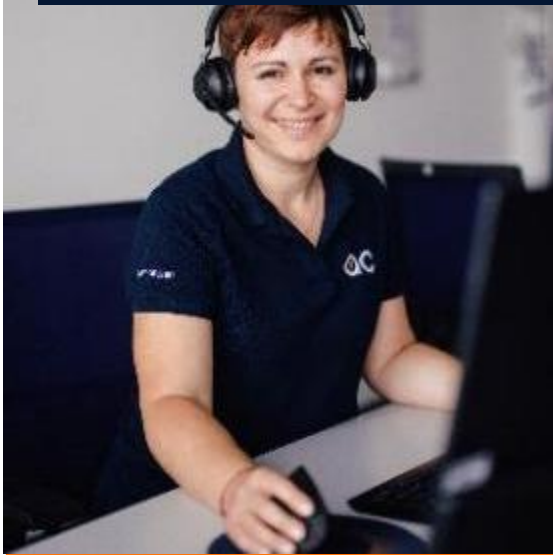
- Asynchronous motors up to IE5
- Permanent magnet synchronous motors in IE5
- Single-phase motors up to IE2
- Explosion-protected motors
- Pole-changing motors
- Frequency inverters
- Project support for special requests
- Customized drive solutions

We offer you an IEC-compliant drive with optimal energy efficiency that fits perfectly into your system and meets all technical requirements.

TAILORED SOLUTIONS. RELIABLY DELIVERED.

Consulting, in-house modifications, hands-on training, and service from a single source

Tailored consulting



In-house modifications



Strong service network



Hands-on training

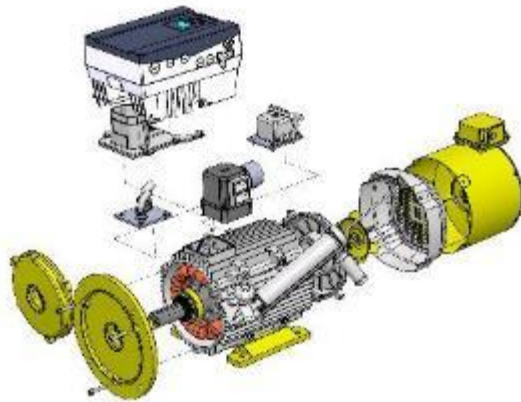


TAILORED DRIVE SOLUTIONS

Experienced electric motor specialists and a components warehouse stocked with external fans, switches, plugs, and many other items needed for conversion can fulfill almost any request when it comes to the right electric motor for your system.

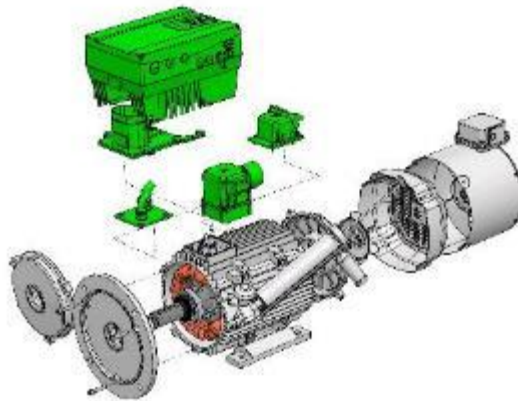


CUSTOM DRIVE SOLUTIONS



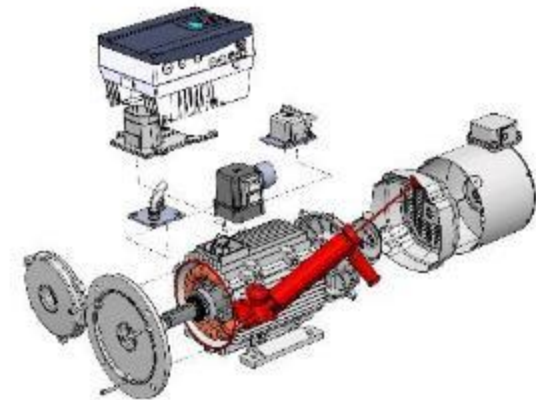
Mechanical modifications

- Fan blade replacement (e.g., metal)
- Installation of an external fan
- Change of design
- Replacement of ball bearings
- Change of bearing concept



Motor control & motor connection

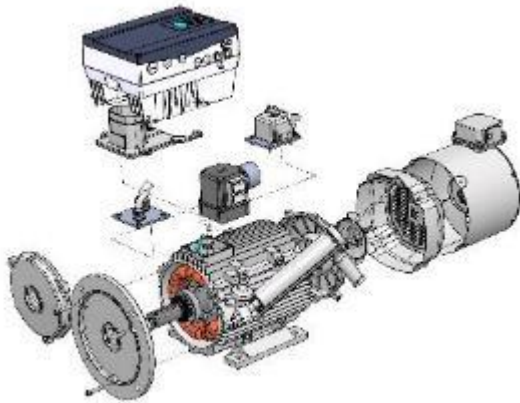
- Integration of frequency converters
- Connection of lead-out cables
- Installation of a Harting connector
- Installation of switch-plug combinations



Sealing, insulation and maintenance

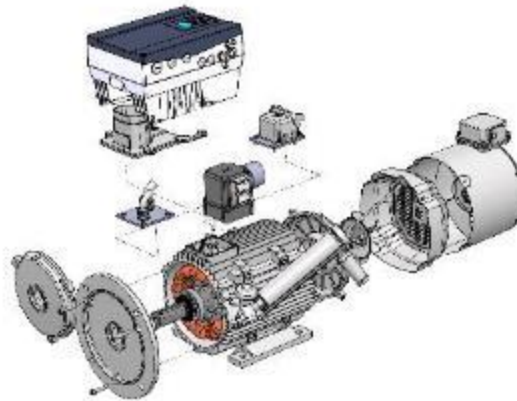
- Increase of IP protection rating
- Addition of tropical insulation
- Installation of a relubrication device
- Addition of a condensate drain

CUSTOM DRIVE SOLUTIONS



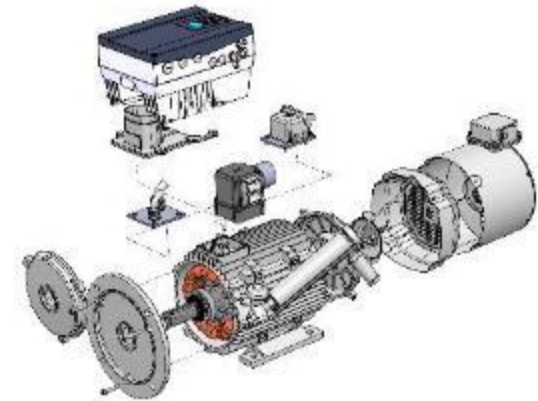
Motor protection devices

- Installation of winding monitoring devices
- Installation of bearing monitoring devices
- Installation of vibration monitoring devices
- Installation of an anti-condensation heater



Motor versions

- VIK for applications in the chemical and petrochemical industries
- ATEX-certified, explosion-protected motors
- Motors with acceptance tests per marine specification (e.g., DNV, GL, etc.)



Approvals

- Europe (CE)
- China (CCC, CQC, CEL)
- USA / Canada (UL)
- United Kingdom (UKCA)
- Ukraine (TR)

ALWAYS AVAILABLE: BRAKE MOTORS



AC brake motors with holding or service brakes offer maximum reliability. With years of experience and expertise, we know what matters.

- Frame sizes: BG 63–280
- Power range: 0.12–90 kW
- Number of poles: 2-/4-/6-/8-pole
- Voltage: 230/400 V, 400/690 V
- Frequency: 50/60 Hz
- Protection class: IP55 or IP65
- IE classes according to EU Ecodesign Regulation 2019/1781
- Brake type: holding or service brake (DC)
- Brake voltage: 205 V DC at 230/400 V / 180 V DC at 400/690 V
- Rectifier integrated in the terminal box (full-wave or half-wave)
- Optional manual release
- Special versions also available on request

ATEX MOTORS FOR HAZARDOUS AREAS



**ATEX-certified three-phase induction motors
for safe use in gas and dust atmospheres.**

- Frame sizes: 56–355
- Number of poles: 2-/4-/6-/8-pole
- Voltage: up to 1,000 V
- Frequency: 50/60 Hz
- ATEX versions: Zone 1: Ex db (eb), Ex eb, Zone 2: Ex ec, Zone 21: Ex tb, Zone 22: Ex tc
- Equipment groups I & II
- Temperature classes up to T6 (optional)
- Coating: Zone 1 & 21: C4-M, RAL 7031, Zone 2 & 22: C2, RAL 7030
- Insulation class F or H
- Certifications: ATEX, IECEx, EAC, UKCA, VIK, BV

MOTORS WITH MOUNTED HARTING INDUSTRIAL CONNECTORS



The three-phase induction motor with a mounted Harting industrial connector offers a practical solution for modern, modular machine and plant concepts.

- Fast and flexible implementation up to frame size BG 180
- Various power ranges
- Different mounting versions (e.g., B3, B5, B14)
- Multiple voltage and frequency ranges
- Customized connector and pin assignment variants according to customer requirements

MOTORS WITH INTEGRATED INVERTER



As a decentralized drive system with a frequency inverter integrated directly on the motor, this solution enables a compact design without an external control cabinet drive.

- Power range: 0.25–22 kW
- Control modes: U/f characteristic curve & sensorless vector control (speed- or torque-dependent)
- Integrated functions such as soft start/stop, overload monitoring & safety functions (e.g., STO)
- Communication: PROFINET, EtherNet/IP, CANopen, Modbus, etc.
- Local or network-based parameterization & diagnostics
- Flexible digital and analog inputs and outputs via I/Os

MOTORS WITH INTEGRATED SWITCH



This solution with an integrated switch enables simple, safe, and flexible switching of machines on and off while reducing wiring effort and simplifying operation.

- Three-phase asynchronous motors (3~ or 1~ phase) with integrated switch
- On/off rocker switch, motor protection switch combinations (SSK 500, 820, etc.), main switch with emergency-stop function
- Project-specific switch solutions available on request
- IEC-compliant frame sizes available
- Mounting arrangements per IEC (e.g., B3, B5, B14)
- Power range is flexible and can be adapted to the project

TESTING OF ELECTRIC MOTORS

Reliable operation of an electric motor under real-world operating conditions is critical – and this is exactly where our load test bench comes in.

- Testing electric motors under realistic operating conditions
- Measurement of power, torque and efficiency in accordance with DIN EN 60034-2-1
- Simulation of different load profiles to evaluate motor behavior in operation
- Testing motor-inverter combinations for optimal matching to the application
- Operating mode simulation at various defined load points
- Efficiency determination in accordance with applicable standards
- Preparation of comprehensive test and measurement reports



CERTIFIED QUALITY AND STANDARD-COMPLIANT EXECUTION FOR INTERNATIONAL MARKETS.

- ATEX (Zone 1 / 21 and Zone 2 / 22)
- VIK
- UL / CSA
- CCC / CQC (CEL)
- UKCA
- Marine approvals (DNV, BV, RINA, ABS, CCS, ...)
- TR
- EAC
- Inspection certificate 2.2
- Inspection certificate 3.1



UA.TR.006

DIGITAL. TRANSPARENT. CUSTOMER-FRIENDLY.

**All relevant information and functions –
available anytime.**

- 24/7 self-service: product selection and ordering directly in the webshop
- 3D models & technical data: for engineering, planning, and fast approvals
- Transparent availability: current lead times and inventory by item
- Reduced coordination effort
- Fewer follow-up questions, faster decisions



Our story shows,
what we stand for:

***INNOVATION.
RELIABILITY.
CUSTOMER FOCUS.***

Ready for the next step –
Together with you.

***ELECTRIFY
YOUR SUCCESS.***

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