

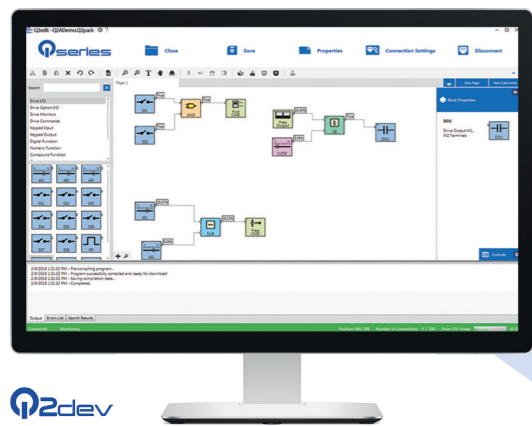
Driving Quality

Q2A tailored application drive



Optimize the entire application workflow

With Q2A drive you will benefit from application optimization at each step of the machine's entire cycle. From design, through commissioning and finally to maintenance.



1 DESIGN

Space-saving. This drive comes with up to a 45% footprint reduction compared with previous solution and allows side by side mounting.

Reduce cost via hardware simplification. Built-in EMC filter, DC reactor and braking chopper. Integrated functional safety and embedded 24 Vdc control board power supply.

Optimize your engineering time. Graphic Development Environment provides faster application customization.



2 COMMISSIONING



3 PRODUCTION

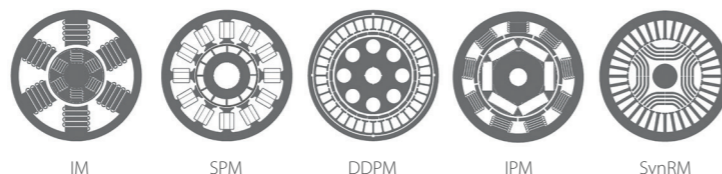


Q2A drive features

- Wide power range from 0.55 to 315 kW
- Open/closed loop speed or torque control
- Embedded functional safety (STO SIL3)
- Ethernet-based communication options: EtherCAT, EtherNet/IP, PROFINET, POWERLINK
- CE, UL, cUL, EAC, RoHS

Improved motor performance

- Q2A series is able to control different motor types in open and closed loops.
- Up to 590 Hz as standard.
- Zero speed control without encoder.
- Tuning-less with EZ vector.



Fast commissioning. Intelligent Application Setup guides you through the parameter settings.

Flexible project deployment. Download your project in your lab or warehouse, without a connected power supply.

Graphical setup. Q2 edit software tool provides parameter setting and monitoring for computers and smart devices.

Minimize machine downtime. Data reporting with trip history. You can predict drive failures, by critical components aging models.

Energy saving. Energy recovery solutions available.

Communication. Centralize your Drives Control with Ethernet Base Networks.

1 Design

- ✓ Reduce your cost not only by size reduction and hardware simplification but as well by reducing the programming and commissioning time.

Cabinet space-saving



External heatsink mounting

- Reduces cabinet space and simplifies your heat dissipation system.



- Up to 45% footprint reduction as power grows

Side by side mounting

- Without derating to reduce panel size



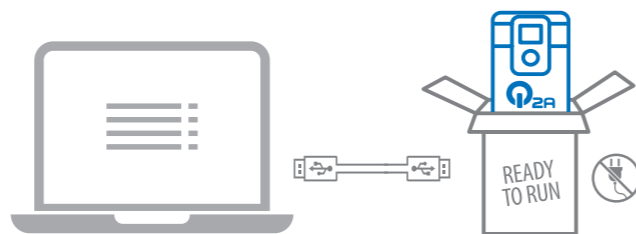
Reduced cost via hardware simplification

- Built-in EMC filter, DC reactor and braking chopper.
- Integrated functional safety replaces mechanical contactors.
- Embedded 24 Vdc power supply for I/O control.

Program >> Deploy >> Go

Q2A drive series can be programmed without any power supply connected. Simply **plug into one of your PC's USB ports**, start programming and enjoy the ease of commissioning.

- ✓ No power supply
- ✓ Reduced commissioning time



2 Commissioning

Reliable operation in a harsh environment

- Coated PCBs as standard protect the electronics from dust or humidity.



Graphical LCD display as standard

Real-time clock for alarm history with Time Stamp

SD micro for data logging and alarm history

Fast commissioning

Intelligent Application Setup

- Thanks to the built-in wizard function, setup time will be reduced and there will be zero risk to setting wrong parameters by forgetting any important setup.



Copy function

- Multiple sets of parameters can be stored and easily transferred to additional drives.

Automatic backup function

- Saves the current parameter settings after a period of user inactivity.

Driving Quality for Industrial Applications



3 Production

- ✓ Improve productivity by reducing machine downtime and increasing power consumption efficiency.

Minimize machine downtime

- Highest manufacturing quality ensures 10 years of 24/7 failure-free operation for your peace of mind.
- Conformal coating to IEC60721-3-3 (3C2 and 3S2) standards for unhealthy industrial environment.
- Various tools for drive condition monitoring to be proactive against potential failures:
 - Micro SD card trace-recording
 - Critical components lifetime modeling
 - Time-stamped historical log
 - Customized maintenance functions



DATA LOGGING AND ALARM HISTORY



Automotive



Food and beverage



Pharma & Chemical

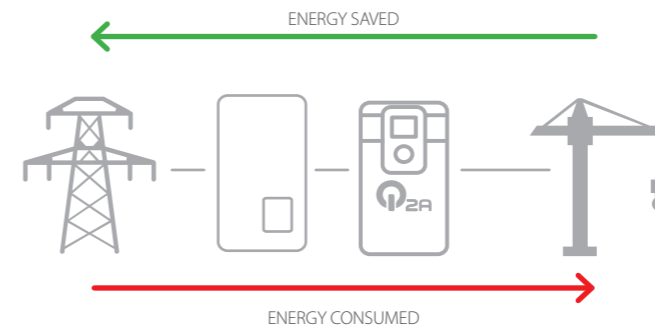


Ceramic

Up to 50% energy saving

Regenerative solutions

- Q2A drive series combined with D1000 or R1000 units can solve regenerative applications re-using the energy for other applications within the same installation.
- 1:1 & 1:N possible configurations.



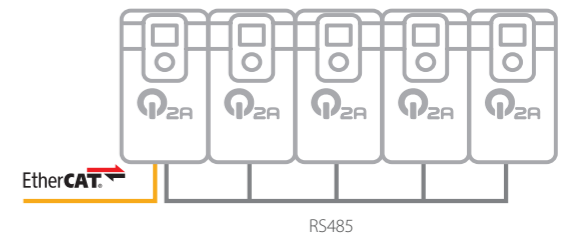
Industrial Communication

Cost effective network integration

- Up to 5 Q2A drives with a single communication card.

Always in control

- Embedded 24Vdc power supply input to keep the CPU alive.



RS485

Would you like to know more?

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