



READY TO CHANGE? MICROMASTER TO SINAMICS

For more than 15 years the MICROMASTER 4 family of Variable Speed Drives have been used by industry to fulfil a wide range of applications. However, technology and market requirements do not stand still so MICROMASTER 4 will be replaced by our innovative SINAMICS drive family.

From MICROMASTER to SINAMICS at a glance



MICROMASTER 420

- MICROMASTER 420, the universal
- Power: 0.37 - 11kW

SINAMICS G120C

- The compact and versatile inverter with optimum functionality
- Power: 0.55 - 132 kW



MICROMASTER 440

- The all-rounder
- Power: 0.37 - 250 kW

SINAMICS G120

- The modular inverter - space-saving, safe and rugged
- Power: 0.55 - 250 kW



Benefits at a glance:

SINAMICS offers significant advantages regarding performance, functionality, and supports trends that were either not able to be realized with MICROMASTER 4, or only with considerable difficulty, including:

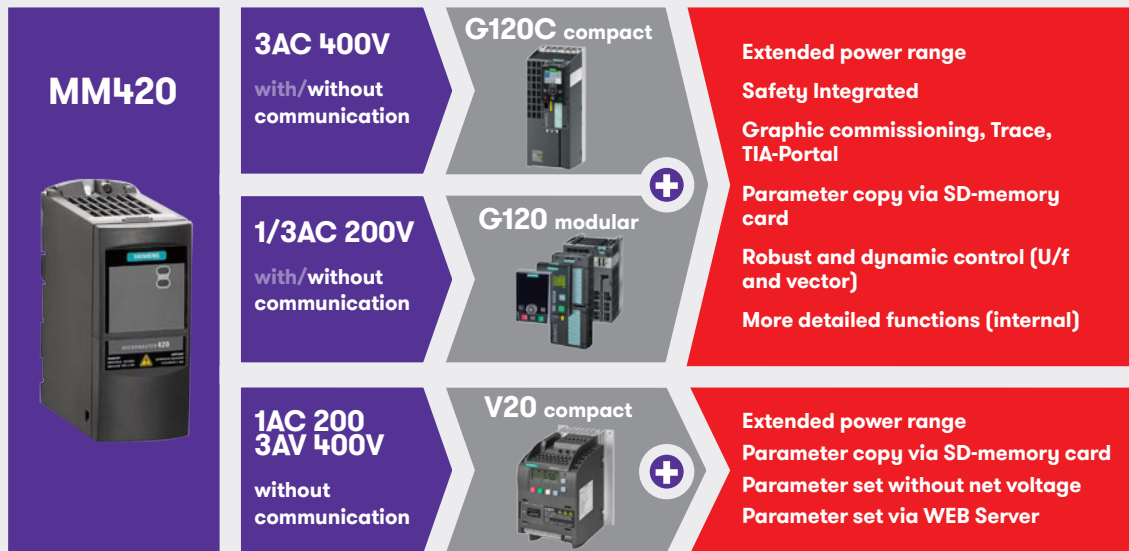
- Safety Integrated
- Integrated PROFINET, Profinet/Ethernet IP communication
- Integration into TIA Portal
- Coated boards for a more robust product

- Pluggable terminals
- Positioning functionality
- Energy recovery
- Push-through cooling concepts

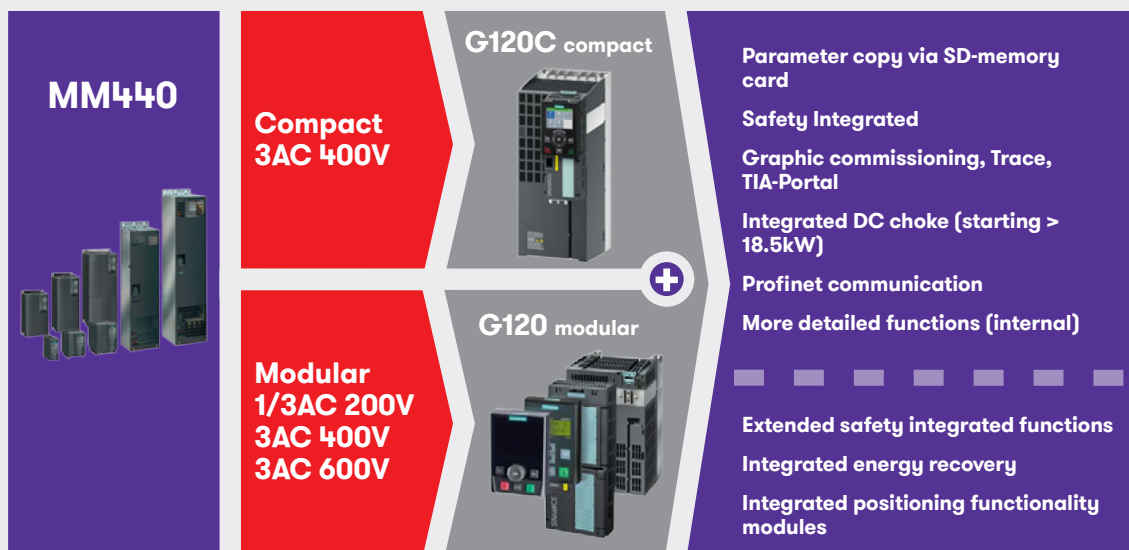
and many more...

CONTINUES ➔

SINAMICS advantages - MICROMASTER 420



SINAMICS advantages - MICROMASTER 440



Migration support:

Learn more about Sinamics in practice -

[CLICK HERE](#) 

Read more on DesignSpark -

[CLICK HERE](#) 

Using the application matrix in the Motion Control Drives Catalog D31, select a converter that is suitable for your application from the SINAMICS drive system -

[CLICK HERE](#) 

Use our simple online Sinamics application selection tool -

[CLICK HERE](#) 

Cross-refer your Micromaster part number!

Enter your current MICROMASTER part number to obtain a recommendation for an alternative converter from the SINAMICS drive family -

[CLICK HERE](#) 

The benefits of Sinamics, find out more:

Click on the links below to find out more about the benefits of migrating to Sinamics.

Totally Integrated Automation -

[CLICK HERE](#) 

Safety Integrated -

[CLICK HERE](#) 

Energy Efficiency -

[CLICK HERE](#) 

PROFINET -

[CLICK HERE](#) 

1.

Go to the www.siemens.com/tool-micromaster web site

2.

Enter the order number of your MICROMASTER device (you can find this on the rating plate or in your last order) in the tool - the alternative article list is displayed.

3.

Select the suggested SINAMICS converter to address your specific requirements - using the "Article number list" button, go directly to the Siemens Industry Mall and order your converter.

[CONTINUES](#) 

Sinamics: the system based advantages

You will become faster:



Simpler engineering with graphic commissioning, trace (oscilloscope function) and integration in the TIA Portal

- Faster commissioning
- Easier to diagnose and troubleshoot
- Simpler to connect to the control system



Parameters are cloned instead of programming

- Simple data exchange using a memory card
- Straightforward series commissioning
- Simplified device replacement when service is required



Commissioning Wizard with optimized user prompting

- Intuitive operator panel
- Optimized application settings, including
- Simplified, error-free commissioning

You will become more flexible and perform better:



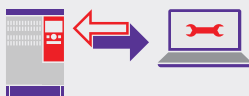
Wide range of hardware versions for various applications

- Push-through mounting for simplified cabinet cooling
- Modular design for reduced spare parts inventory (G120/G120P)
- Distributed installation without electrical cabinet in an IP55 design (for G120P)



Integrated DC link reactor

- Lower costs and less space as an input reactor is not required
- Allows longer motor cables to be used



Standard USB interface to connect a PC

You will become safer and more efficient:



SINAMICS with Safety Integrated

- Integrated and certified safety functions as standard without requiring any additional components
- Safety-related communication via PROFIsafe
- Depending on the converter, "Safe Torque Off (STO)", "Safe Stop (SS1)", "Safe Brake Control (SBC)", "Safely Limited Speed (SLS)", "Safe Speed Monitoring (SSM)" as well as "Safe Direction of Rotation (SDI)" can be used



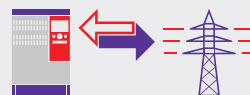
Simple connection to the automation system and improved control response

- PROFIBUS or PROFINET fieldbus interface is already integrated in SINAMICS
- Rugged open-loop and closed-loop control response for drives with low dynamic requirements – as well as for demanding drives with speed and torque control



Consequential cost reduction

- Integrated functionality, for example Safety Integrated, integrated DC link reactor, energysaving functions etc.



High energy efficiency

- ECO mode in partial load operation or integrated energy recovery without requiring any additional modules



Positioning technology function integrated in the drive (EPos)

- No additional positioning modules and encoder interfaces are required