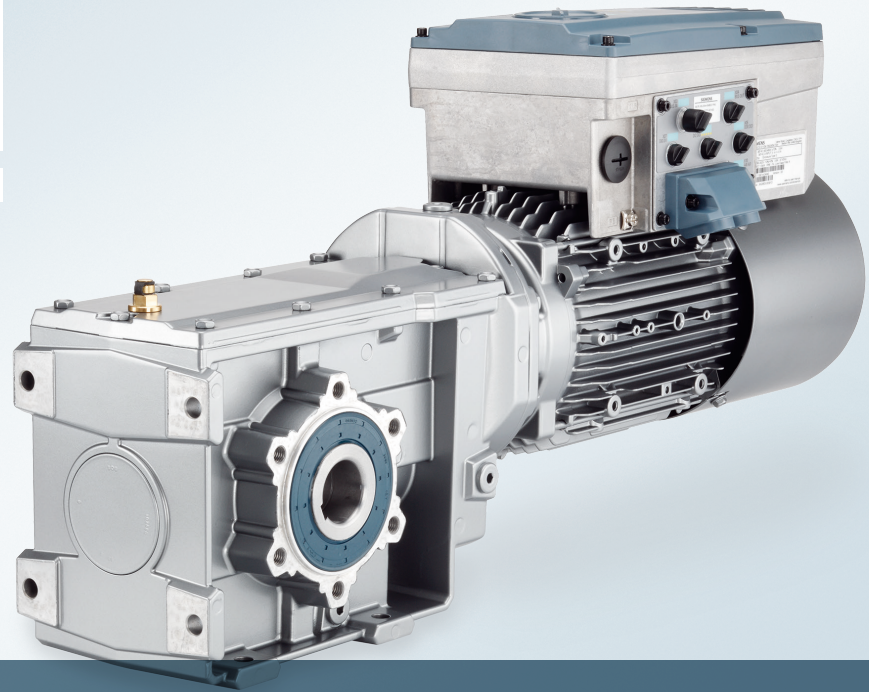


SIEMENS



usa.siemens.com/g110m

Flexible, easy handling

SINAMICS G110M:
Motor-integrated drive design for SIMOGEAR gear motors

The demands put on new material handling systems are increasing. Faster machine build, installation and start-up, consuming a smaller footprint and increased flexibility of control system architecture are just a few of the demands from users and machine builders.

Siemens brings answers to these demands and more with the new SINAMICS G110M motor-mounted drive for SIMOGEAR gear motors.

Simple installation

SIMOGEAR gear motors are known for their high torque density, low noise and high efficiency. With the addition of SINAMICS G110M, integration into a variety of control architectures is easier than ever. The new drive is suitable for a variety of applications and environments. Plug connections for all I/Os ensure fast installation. Optional power connectors deliver even more time savings. Options such as internal braking resistors and motor brakes – operational simultaneously – and integrated features such as “Quick Stop” and the limit switch function make the system ideal for conveyor applications.

Flexible control

For applications that require safety technology, the SINAMICS G110M offers integrated safety functions such as “Safe Torque Off” (STO), which can be activated via a fail-safe input or via PROFISAFE—without additional components. The drive comes with integral PROFINET, PROFISAFE, EtherNet/IP, PROFIBUS, USS, and Modbus RTU communications and is directly incorporated in the Totally Integrated Automation (TIA) Portal. The system is delivered pre-set. Users may configure the drive with Startdrive or Starter. Simple systems may be configured via potentiometer and DIP switch settings.

With SINAMICS G110M, you get a variable frequency drive...

... that can be quickly and conveniently commissioned	<ul style="list-style-type: none"> • Preconfigured with SIMOGEAR • Daisy-chaining of 480V and communication – no T connections required • Optional motor brake and optional internal braking resistor can be used together • Robust, with degree of protection up to IP66 and up to 55° c ambient temperature • Commissioning via fieldbus or Ethernet
... that facilitates commissioning on-site	<ul style="list-style-type: none"> • Optional plug-in connectors for 480V AC and 24V DC. M12 I/O connectors standard. • Uploading, storing and cloning of parameters with SD card and Intelligent Operator Panel (IOP) • Local commissioning via DIP switch, standard USB interface and potentiometer • Local diagnostics with LEDs
... that can be used for multiple applications	<ul style="list-style-type: none"> • Compact design, small frame size • In combination with SIMOGEAR, available in many variants
... that provides more than a mere standard	<ul style="list-style-type: none"> • Integrated safety functions (STO local via fixed digital input or via PROFIsafe) • Integrated communication: PROFINET, PROFISAFE, EtherNet/IP, PROFIBUS, USS, and Modbus • PROFINET and EtherNet/IP are the same hardware. Selectable by parameter • Basic PLC functionalities and additional conveyor functions • I/Os can be used as distributed PLC I/Os
... that saves time through efficient engineering	<ul style="list-style-type: none"> • Fully integrated in TIA Portal and Integrated Drive Systems • Comprehensive diagnostics in combination with SIMATIC controllers
... that provides the highest flexibility right from the beginning	<ul style="list-style-type: none"> • Integrated, specific software functionality for conveyor technology: <ul style="list-style-type: none"> – Quick-stop function for short reaction times regarding sensors – Limit switch functionality, e.g. for rotary table, corner converter • Interface via the same software tools (STARTER / Startdrive) as all SINAMICS drives



Technical data of SINAMICS G110M

Voltage / frequency	3-phase 380–500V –10 % +6 % with 50/60 Hz +/-5 %	Safety technology	STO according to IEC 61508 SIL2, ISO 13849 PLd, EN954-1 Cat. 3
Performance range	0.5 – 5HP	Communication	PROFINET, PROFISAFE, EtherNet/IP, PROFIBUS, USS, and Modbus
Degree of protection	Up to IP66	Control modes	U/f, SLVC
Ambient temperature	–10° c to 40° c without derating / up to 55 °C with derating	Functions	Quick stop, limit switch function, free function blocks (PLC function)
EMC	According to IEC 61800-3, Category 2	Brakes	Integrated braking resistor (optional), motor holding brake, software braking procedures - all may be used together
Standards	UL, cUL, CE, c-Tick	Ordering versions	Integrated onto SIMOGEAR gear motors with cable glands or power connectors, and available in all mounting positions.

Siemens Industry, Inc.
3333 Old Milton Parkway
Alpharetta, GA 30005
1-800-241-4453

info.us@siemens.com

Subject to change without prior notice
Order No.: LDFL-00010-0115
Printed in USA
© 2015 Siemens Industry, Inc.

The information provided in this flyer contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.