

SINAMICS G120D

Distributed Inverter for Cabinetless Designs

The SINAMICS G120D inverter with degree of protection IP65 is the "distributed" brother of the already known SINAMICS G120 series. It has inherited its advantages such as modularity and innovative safety technology (Safety Integrated) and complements the range as a result of the well-conceived design with a high degree of protection. Thanks to the wide range of power ratings up to 7.5kW almost all inverter-related applications can be consequentially designed without electrical cabinets. Digital inputs and outputs at the unit allow sensors and actuators to be directly connected-up at the drive. The input signals can either be directly processed in the inverter and autonomous (independent) local responses can be initiated – or the input signals can be transferred to a central control via PROFIBUS/PROFINET – where they are processed in the context of the complete plant or system.



SINAMICS G120D – a Brief Summary of its Strengths

- **With many innovative functions**

Safety Integrated for safety-relevant machines and systems, capable of regenerative feedback into the line supply for energy saving and the same drilling template for all power ratings

- **Faster engineering, fast commissioning**

Commissioning and service times are also optimized thanks to the standard use of connectors for power, communications and sensor systems – optional Micro Memory Card for parameter saving

- **Efficient and consistent solutions**

via Totally Integrated Automation (TIA), consistency from SINAMICS through to the automation level

SINAMICS G120D – Technical Data

Voltage and power ranges 3-ph. 380V AC - 3-ph. 500V AC + 10% - 15% - 0.75 kW up to 7.5 kW

Types of control V/f, FCC, Sensorless vector control (SLVC), Vector control with encoder feedback

SINAMICS G120D – Typical Uses

SINAMICS G120D is suitable for the open-loop and closed-loop control of induction motors in a wide range of industrial applications. The drive is predestined to be used in complex conveyor systems – such as are found in automobile production with their numerous distributed single-motor drives. Further, the inverter is also suitable for high-performance applications in the airport sector, in the F&B sector (dry zones) and for electric suspended monorails in distribution logistical systems.