




SIEMENS



Line card

Industrial OEM products

Complete product offering

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Siemens Industry, the global leader in Industrial Automation.

In response to today's increasing competitive pressure, it is more important than ever to optimize – over the entire life cycle of a machine or plant – starting with planning and engineering, continuing into operation and maintenance right through to expansion and modernization.

With expertise in over 190 countries worldwide, Siemens Industry has developed centers of industry expertise in Food and Beverage, Automotive, Aerospace, Chemical, Glass, Pharmaceutical, Metals and Water/Wastewater, ensuring standardization and compliance with industry standards and regional regulations.

Siemens Industry products and solutions offer efficient configuration, faster integration and commissioning, greater flexibility in production and higher availability and energy savings. Within these pages you'll find an innovative, comprehensive and balanced range of products to help you, the machine builder, realize those benefits.

Automation Controllers

Modular Controllers

- SIMATIC S7-1200 Compact Controller
- SIMATIC S7-1500 Mid-high Range Controller
- SIMATIC S7-300 Mid-range Controller
- SIMATIC S7-400 High-range Controller

PC-Based Controllers

- WinAC / WinCC embedded control - SIMATIC IPC, mEC, bundles



Control Circuit Protection

- Third Party Certifications; UL, UR, CSA, CE
- Supplementary Protection to UL 1077
- Branch Circuit Protection to UL 489
- DIN Rail Mounted



Control Power Transformers

- Domestic with UL & CSA
- International with UL, CSA & CE



Control Safety

- Hinge Switches
- Interlock Switches
- Magnet Switches
- Rope Pull Switches
- Safety Relays
- Two Hand Control Stations
- RFID Safety Switches



Customer Services

- Online Support
- Technical Support
- Field Service
- Spare Parts
- Repairs
- Service contracts
- Retrofits and Upgrades



Distributed IO (remote I/O)

SIMATIC ET200

For Control Cabinet (IP20)

- Multi-functional
 - ET200S
 - ET200SP
- Modular
 - ET200M, ET200MP
- Intrinsically Safe
 - ET200isp

Cabinet-less (IP65/67)

- Multi-functional
 - ET200pro
- Block Style
 - ET200eco
 - ET200eco PN



High-Performance Motors – Inverter Duty

SIMOTICS

- Servomotors (0.06 – 92 lb-f t)
- Geared Servomotors (3 – 1844 lb-f t)
- Induction Motors (4 – 18,000 hp)
- Torque Motors (74 – 5163 lb-f t)
- Linear Motors (34 – 2332 lb-f t)



Human Machine Interface

Basic Panels – Basic functionality

- 3" to 10" Keypad and Touch
- 15" Touch
- Monochrome and Color

Comfort Panels – High functionality

- 4" to 22" Hi-res Widescreen
- Keypad and Touch

Key Panels – Conventional keypad

- 8- or 32-button keypad

Mobile Panels – "Cabinet-less" control and monitoring

- Keypad and Touch

Thin Client – Cost-effective client

- 10" or 15" Touch



IEC Disconnect Switches

- IEC, UL, UR, CE Rating
- Rotary Switches
- Panel-mounted or Door-mounted
- Fusible and Non-fusible
- Enclosed and open style



Industrial Controls

SIRIUS IEC Power Control

- Starters
- Contactors
- Overload Relays
 - Thermal/Solid State/Intelligent: SIMOCODE
- Motor Starter Protectors
- Busbar System - Fast Bus

Solid State Relays & Contactors

Solid State Soft Starters



Industrial Identification

- 1D and 2D code reading systems
- HF and UHF RFID systems



Industrial Power Supplies

- Single phase and three phase power supplies
- 24VDC Power Security Solutions



Interface Converters

- Individual
- Multi-range
- Universal



Limit Switches

- North American Style (NEMA)
- International Style (IEC)



Industrial Network Solutions

- Industrial Ethernet
- Industrial Wireless 802.11 a/b/g/n
- FastConnect - cabling solutions for PROFIBUS & PROFINET



Mechanical Drives

Helical-Bevel-Helical- Planetary Gear Units, Gear Motors and Couplings

- Helical and Bevel-Helical Gear Units
 - Torques 25,000 – 12,400,000 in-lbs
- Planetary Gear Units
 - Torques 88,000 – 23,000,000 in-lbs
- Application Specific Gear Units
 - Aerators, Conveyors, Bucket Elevators, Cranes, Paper Drives, Extruders
- Heavy Duty Applications
 - Vertical Roller Mills, Ball Mills, Jack-Up Rigs, Kiln Drives
- SIMOGEAR Gear Motors
 - Helical Bevel Gear Motors
 - Parallel Shaft Gear Motors
 - Helical In-line Gear Motors
- Coupling Types
 - Flexible, Gear, Fluid and Rigid



Motion Controllers

SIMOTION Machine Controllers
SIMOTION D (drive based)
SIMOTION P (Integrated programmable computer)
SIMOTION C (Controller based)



Motor Control Centers

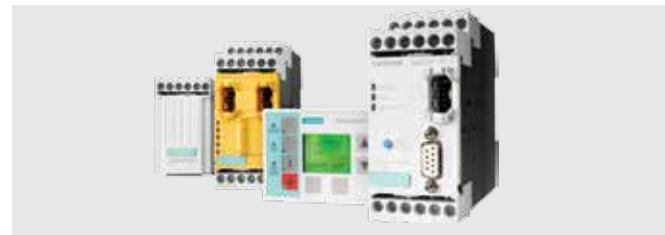
- tiastar™ Base, tiastar Smart, tiastar HD, tiastar H2O
- Panelboards / Switchboards

Installed components include Automation, Control, and Power Distribution devices. Including, but not limited to: AC Drives, Circuit Breakers, NEMA Starters, Pilot Devices, SIMOCODE and communication protocols.



Motor Management

- SIMOCODE pro C
- SIMOCODE pro V
- SIMOCODE pro V (PN)



NEMA Control

- Contactors
- Non-Combination Starters
- Combination Starters
- Reduced Voltage Starters
- Solid-State & Thermal Overload Relays
- Pump Controls
- Lighting and Heating Controls
- Manual Starters and Switches



PC-based Automation

Industrial Computers (IPC)

- Box IPCs
- Panel IPCs
- Rack IPCs

OEM Solutions

- Explosion-proof IPC
- Customized OEM Solutions
- IP65-rated IPC

Industrial Monitors

- Thin Client Monitors
- Flat Panel Monitors



Pilot Devices

- 16mm
- 22mm
 - Metal/Plastic
- 30mm
 - Oil Tight/Corrosion Resistant/Explosion Proof
- Control Stations



Power Distribution

Circuit Breakers

- Molded Case
- Insulated Case
- Power Circuit Breakers
- Heavy Duty Circuit Breakers
- Heavy Duty Enclosed Switches
- General Duty Enclosed Switches



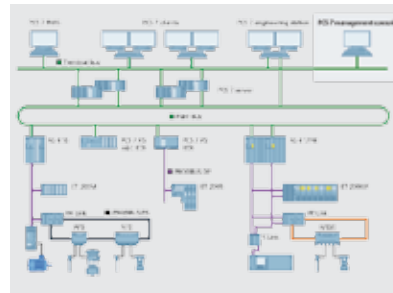
Power Distribution Solutions Energy Management

- Ethernet / Modbus / PR PROFIBUS / PROFINET Meters
- Energy and Power Monitoring and Control Software



Process Control Systems

- SIMATIC PCS 7 Distributed Control System
- SIMATIC BMS 400F Burner Management System
- SIMATIC BATCH



Relays

- Control
- Interface
- Plug-In
- Power
- Timing
- Monitoring
 - Current, Voltage, Insulation, PowerFactor, Speed, Level, Temperature, Thermistor



Safety Integrated

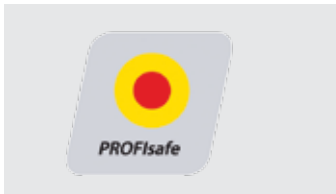
Certified Automation

- Safety PLC
- Distributed I/O

Certified Safety Networks

- AS-I SAFE
- PROFSafe on PROFIBUS or Ethernet

Variable Frequency Drives



Stack Lights / Signal Beacons

- 50mm Diameter, IP54
- 70mm Diameter, IP65



Terminal Blocks

- Screw, Spring Loaded, Insulation Displacement, Plug-in and Combination Plug-in Wire, and Hybrid Connections



Variable Speed Drive Technologies

General Purpose Drives

- SINAMICS V (1/6 to 20 Hp)
- SINAMICS G (1/2 to 800 Hp)
- MICROMASTER (1/6 to 350 Hp)

High-Performance Vector and Servo Drives

- SINAMICS
 - S110 (1/4 – 125 hp)
 - S120 (1/4 – 1500 hp)

DC Drives

- SINAMICS
 - DC Master (5 – 24,000 hp)
 - Base Drive Panels (5 - 500 hp)
 - DC Master Control Modules

Enclosed (Cabinet) Drives

- SINAMICS
 - G150 NEMA Rated (150 – 800 hp)
 - G120E (1 – 200 hp)
 - S150 (150 – 1250 hp)
 - S120 Cabinet Modules (CM) NEMA Rated (up to 5000 hp)



Visualization and Engineering Software

SIMATIC TIA Portal
SIMATIC Distributed Safety
SIMATIC Safety Advanced

SIMATIC WinCC

- Machine Level
- SCADA



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