

SIEMENS



SINAMICS V20

The cost-effective, reliable and easy-to-use
AC drive for basic applications

usa.siemens.com/sinamics-v20

Answers for industry.

SINAMICS V20

The perfect drive solution for basic applications

SINAMICS V20, the versatile drive system for basic demands

Today, in an increasing number of applications in plant and machinery construction, individual automation and drive solutions are demanded that automate simple motion sequences with low associated requirements.

With its compact SINAMICS V20, the basic performance AC drive, Siemens offers a simple and cost-effective drive solution for these types of applications. SINAMICS V20 sets itself apart with its quick commissioning times, ease of operation, robustness and cost-efficiency.

With four frame sizes, it covers a power range extending from 0.12 kW up to 15 kW (1/6 hp up to 20 hp).

Minimize your costs

Engineering, commissioning and operating costs as well as those in operation must be kept as low as possible. You have precisely the right answer with our SINAMICS V20. To increase energy efficiency, the drive is equipped with a control technique to achieve optimum energy efficiency through automatic flux reduction. Not only this, it displays the actual energy consumption and has additional, integrated energy-saving functions. This allows energy consumption to be slashed drastically.

Highlights

Easy-to-install

- Push-through and wall mounting – side-by-side possible for both
- USS and Modbus RTU at terminals
- Integrated braking chopper for 7.5 kW to 15 kW (10 hp up to 20 hp)

Easy-to-use

- Parameter loading without power supply
- Integrated application and connection macros
- Keep Running Mode for uninterrupted operation
- Wide voltage range, advanced cooling design and coated PCBs increase robustness


Easy to save money


- ECO mode for V/f, V²/f
- Hibernation mode
- DC coupling


| | |
|---------------|--|
| Power range | 0.12 kW to 15 kW (1/6 hp up to 20 hp) |
| Voltage range | 1AC 200 V ... 240 V (+ / -10 %) 3AC 380 V ... 480 V (+10 % / -15 %) |
| Control modes | V/f V ² /f FCC V/f multi-point |



Typical applications

| Pumping, ventilating and compressing | | |
|---|---|--|
|  | <ul style="list-style-type: none"> • Centrifugal pumps • Radial/axial fans • Compressors | <p>Additional advantages:</p> <ul style="list-style-type: none"> • High availability through automatic restart and flying restart after power failures • Broken belt detection by monitoring the load torque • Pump protection against cavitation • Hammer start and blockage clearing modes for clogged pumps • PID controller for process values (e.g. temperature, pressure, level, flow) • PID auto tuning to optimize controller parameters • Hibernation mode stops the motor when demand is low • Motor staging extends the flow range by adding two more fixed-speed drives (cascade) • Frost and condensation protection prevents moisture in motors under extreme environmental conditions |

| Moving | | |
|---|---|--|
|  | <ul style="list-style-type: none"> • Belt conveyors • Roller conveyors • Chain conveyors | <p>Additional advantages:</p> <ul style="list-style-type: none"> • Soft, jerk-free acceleration reduces the stress on the gear units, bearings, drums and rollers • Super torque start for conveyor belts with high breakaway torque • Dynamic behavior by using braking resistor or DC braking • Direct control of mechanical holding brake • Broken belt detection by monitoring the load torque |

| Processing | | |
|---|---|--|
|  | <ul style="list-style-type: none"> • Single drives in the process industry such as mills, mixers, kneaders, crushers, agitators, centrifuges • Main drives in machines with mechanically coupled axes such as ring spinning machines, braiding machines for textile, ropes and wire | <p>Additional advantages:</p> <ul style="list-style-type: none"> • Frost and condensation protection prevents moisture in motors under extreme environmental conditions • Higher productivity with uninterrupted production due to Keep Running Mode • Exchange of regenerative energy via the DC link • Super torque start for machines with a high breakaway torque |

Easy-to-install

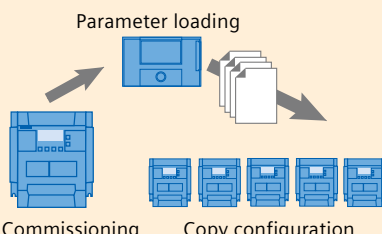


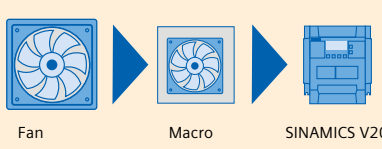
| Installation | | |
|--|--|--|
| | SINAMICS V20 feature | Your benefits |
| <p>Side-by-side mounting No space required</p> <p>Wall mounting Cooling</p> <p>Push-through mounting Cooling</p> | <p>Compact design, side-by-side mounting and flexible device installation for both wall mounting and push-through mounting.</p> <p>Operation without additional option modules possible.</p> | <ul style="list-style-type: none"> • Compact installation allows smaller cabinets to be used • Push-through mounting allows the cabinet to be cooled more easily • Can be run "out-of-the-box" without other options • Basic operator actions at a built-in BOP (Basic Operator Panel) |

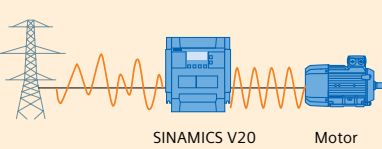
| Communication | | |
|---|---|---|
| | SINAMICS V20 feature | Your benefits |
| <p>Siemens products Standard library USS</p> <p>Other products Modbus</p> <p>SINAMICS V20</p> | <p>The communication port is available at the terminals. The preset parameters of the USS and Modbus RTU are defined in the connection macro.</p> | <ul style="list-style-type: none"> • Easy integration into existing systems • Easy integration into micro automation systems • Easier commissioning through standard libraries and connection macros |

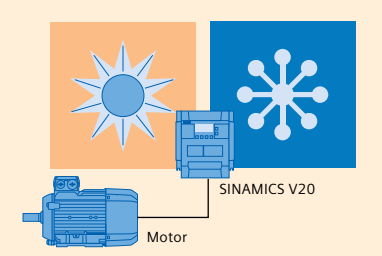
| Braking module | | |
|--|---|---|
| | SINAMICS V20 feature | Your benefits |
| <p>SINAMICS V20</p> <p>Motor</p> <p>Braking module</p> <p>Resistor</p> | <p>The dynamic energy is dissipated as heat in a braking resistor with an adjustable duty cycle of between 5 % and 100 %.</p> | <ul style="list-style-type: none"> • Possible to use dynamic braking to increase braking performance • Drives ≥ 7.5 kW have an integrated braking module. In this case, the braking resistor can be directly connected. |

Easy-to-use

| Parameter cloning | | |
|--|---|--|
| | SINAMICS V20 feature | Your benefits |
|  <p>The diagram shows a 'Parameter loading' step where a parameter loader (represented by a stack of papers) is used to transfer settings. Below this, a 'Commissioning' unit is shown on the left, and a 'Copy configuration' step is shown on the right where multiple units are being configured from a single source.</p> | <p>Parameter settings can be easily transferred from one unit to another using the BOP (Basic Operator Panel) interface – or even without power supply by using the parameter loader.</p> | <ul style="list-style-type: none"> • Less technical support required • Short commissioning time • The product is delivered to the customer already preset |


| Macro approach | | |
|--|---|---|
| | SINAMICS V20 feature | Your benefits |
|  <p>The diagram illustrates the macro approach. It starts with a 'Fan' icon, followed by a 'Macro' icon, and finally a 'SINAMICS V20' drive icon. Blue arrows indicate the flow from the fan to the macro and then to the drive.</p> | <p>Connection and application macros to simplify I/O configuration and make the appropriate settings.</p> | <ul style="list-style-type: none"> • Shorter training and commissioning time • Integrated and optimized application setting • Simple connection and application macros can be selected instead of configuring long complicated parameter lists • Errors caused by wrong parameter settings can be avoided |

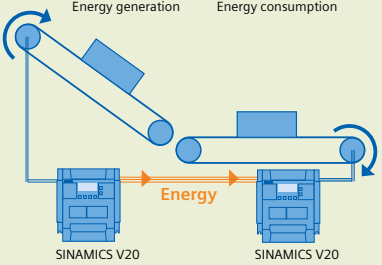
| Keep Running Mode | | |
|--|---|--|
| | SINAMICS V20 feature | Your benefits |
|  <p>The diagram shows a power line with a fluctuating waveform entering a 'SINAMICS V20' drive, which is connected to a 'Motor'. This represents the system's ability to handle unstable line supplies.</p> | <p>The function provides higher productivity in production by automatic adaptation in the case of unstable line supplies.</p> | <ul style="list-style-type: none"> • Stable operation under difficult line supply conditions • Higher productivity through prevention of interruptions of the production line • Adaptation to application-relevant reactions through flexible definition in case of fault/alarm |

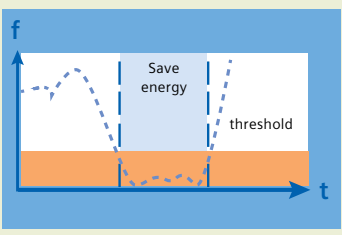
| Robustness | | |
|--|--|--|
| | SINAMICS V20 feature | Your benefits |
|  <p>The diagram shows a 'SINAMICS V20' drive connected to a 'Motor'. Above the drive are icons for a sun (representing heat) and a snowflake (representing cold), indicating the drive's performance in extreme temperatures.</p> | <p>Wider voltage range, better cooling design and coated PCB increase robustness of the drive in difficult environments.</p> | <ul style="list-style-type: none"> • Operation possible when the line supply voltage fluctuates • Reliable operation for line voltages: <ul style="list-style-type: none"> – 1AC 200 V ... 240 V (–10 % / +10 %) – 3AC 380 V ... 480 V (–15 % / +10 %) • Operation up to an ambient temperature of 60 °C |

Easy to save money



| Energy reduction during operation | | |
|---|--|---|
| | SINAMICS V20 feature | Your benefits |
|  <p>up to 60% energy saving *</p> | <p>Integrated ECO mode for V/f and V^2/f automatically adapts the flux to save energy. The energy consumption can be shown in kWh, CO₂ or even in the local currency.</p> | <ul style="list-style-type: none"> • Energy saving during low dynamic load cycles • If the setpoint changes, the ECO mode is automatically deactivated • Tells end users the actual energy that has been saved |

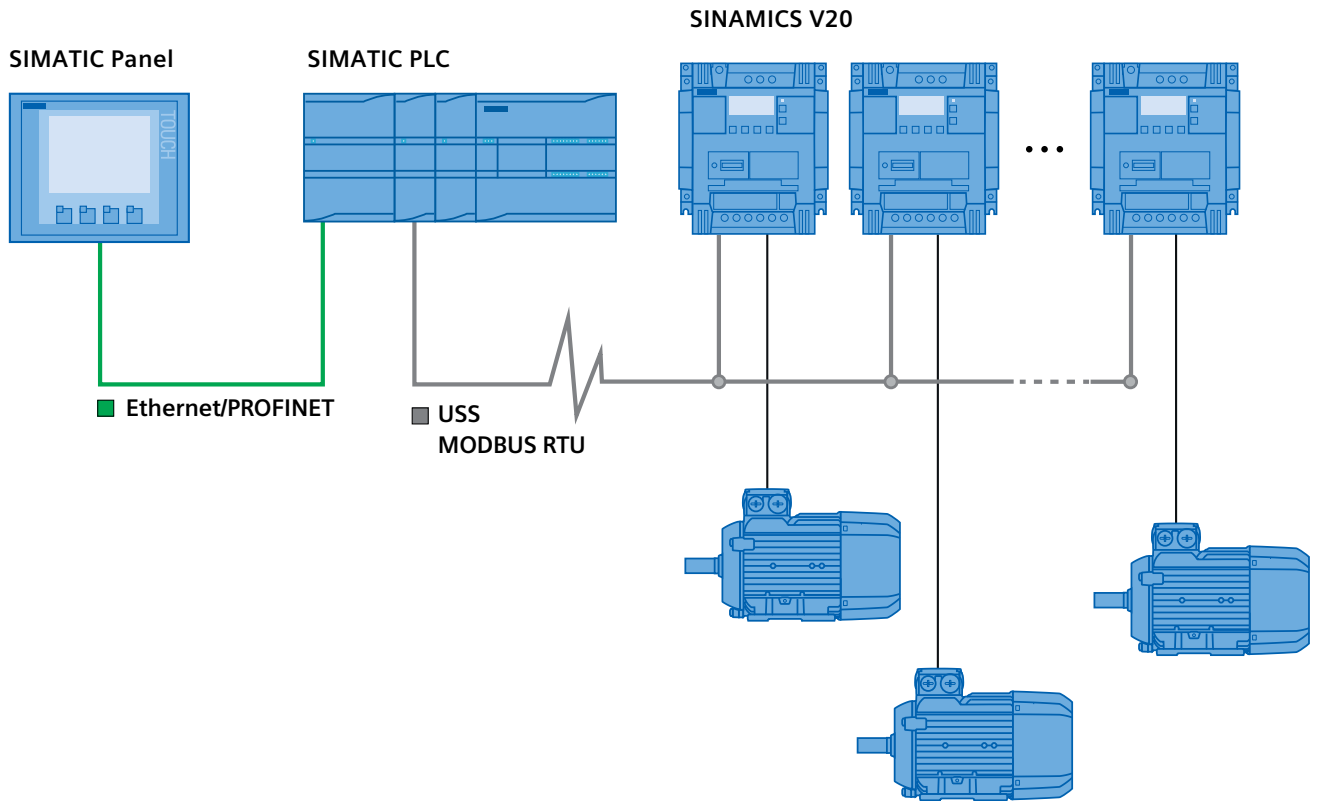
| Energy reduction during operation — DC coupling | | |
|--|---|--|
| | SINAMICS V20 feature | Your benefits |
|  <p>Energy generation Energy consumption</p> <p>SINAMICS V20 SINAMICS V20</p> | <p>Applications that use SINAMICS V20 drives with the same power rating can share a common DC bus to reuse the regenerative energy.</p> | <ul style="list-style-type: none"> • Generate and save energy in applications that use coupled motors • Pairs of identical drives can optimally share resources • Reduce the need for dynamic braking and external components |

| Energy reduction during standby — hibernation mode | | |
|---|--|---|
| | SINAMICS V20 feature | Your benefits |
|  <p>f</p> <p>Save energy</p> <p>threshold</p> <p>t</p> | <p>Drive and motor only operate when the plant or machine requires them to. Hibernation mode will be activated automatically when the frequency demand or the feedback from a sensor drops below a specific threshold.</p> | <ul style="list-style-type: none"> • Smart hibernation saves energy • Extended lifetime of motor • Reduced pump wear at low speed • Less time to program PLC code for pump/fan applications (PLC) |

* Application and machine-type dependent.

Easy automation system

Combining SIMATIC PLC with SINAMICS V20 drives



Highlights

Saving time and minimizing errors

- Easy system configuration with pre-defined macros in the drive and pre-built Totally Integrated Automation Portal function blocks for quick connection to SIMATIC S7-1200**
- One cable to connect SINAMICS V20 with USS or MODBUS RTU
- Integrated communication interface

** Application example with function blocks can be downloaded from Siemens Industry Online Support under: <http://support.automation.siemens.com/WW/view/en/63696870>



Industry services

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Siemens supports its customers worldwide with Services for products, systems and applications throughout the entire lifecycle of machines and plants. Customers benefit not only from our holistic service portfolio, but also from our extensive knowledge of technologies and products, as well as the industry competence of Siemens experts.

With the product-related services in particular, the focus is always on ensuring maximum plant availability in daily operation. The key here is expert consulting and support directly from the manufacturer of the drive and automation technology being used.

As a result downtimes are reduced and resource utilization is optimized. The result is greater productivity, flexibility and efficiency at a lower overall cost.

Discover all the advantages of the Industry Services portfolio at

[siemens.com/industry-services](https://www.siemens.com/industry-services)

SINAMICS V20 service

SINAMICS V20 service is integrated into our well-established global model.

- Global hotline support
- Comprehensive service network of factory-trained repair specialists
- Multiple language web-based support and FAQs

Online Support

The comprehensive online information platform supports you in all aspects of our service and support at any time and from any location in the world.

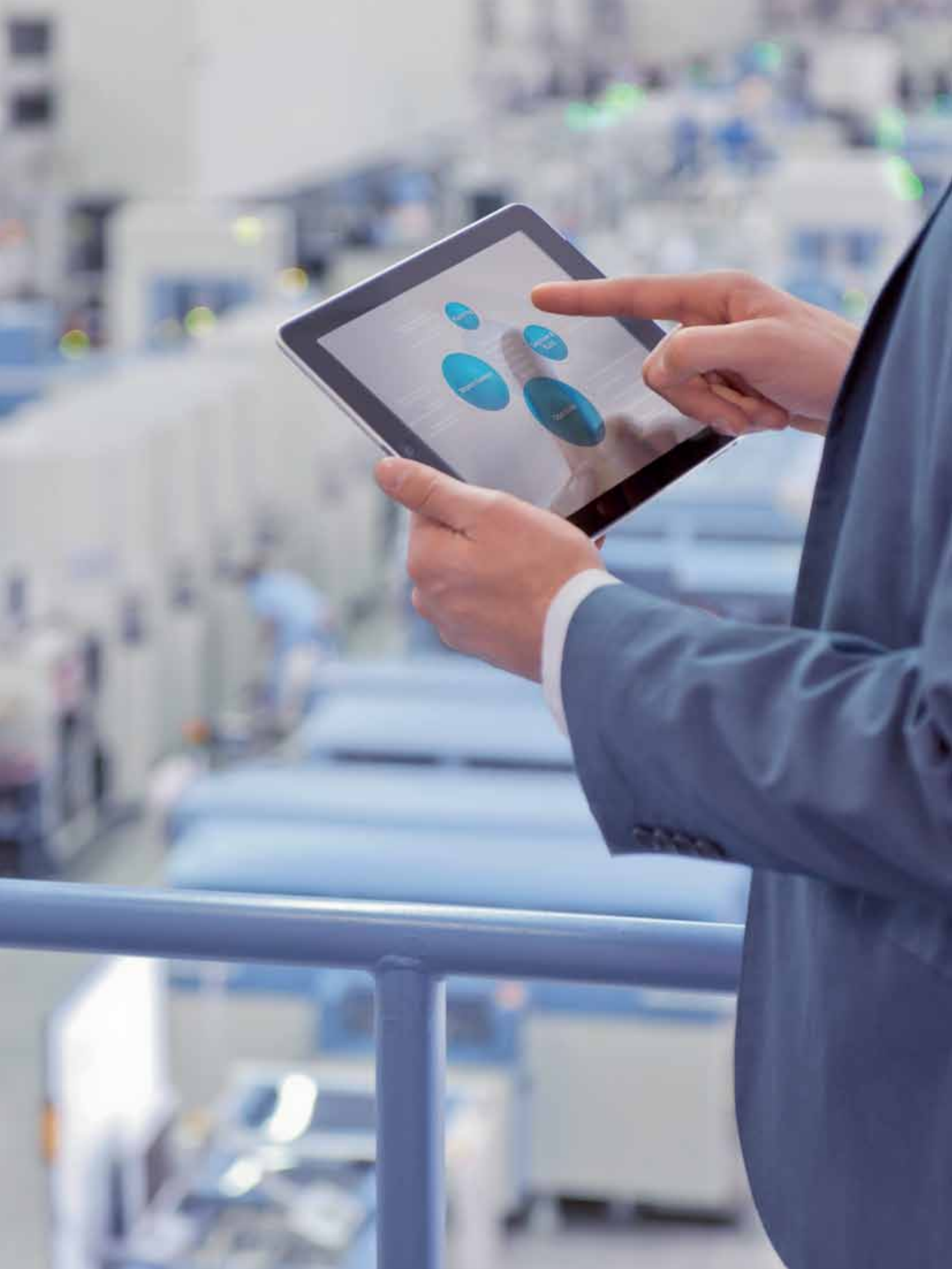
[siemens.com/automation/service&support](https://www.siemens.com/automation/service&support)

Technical support

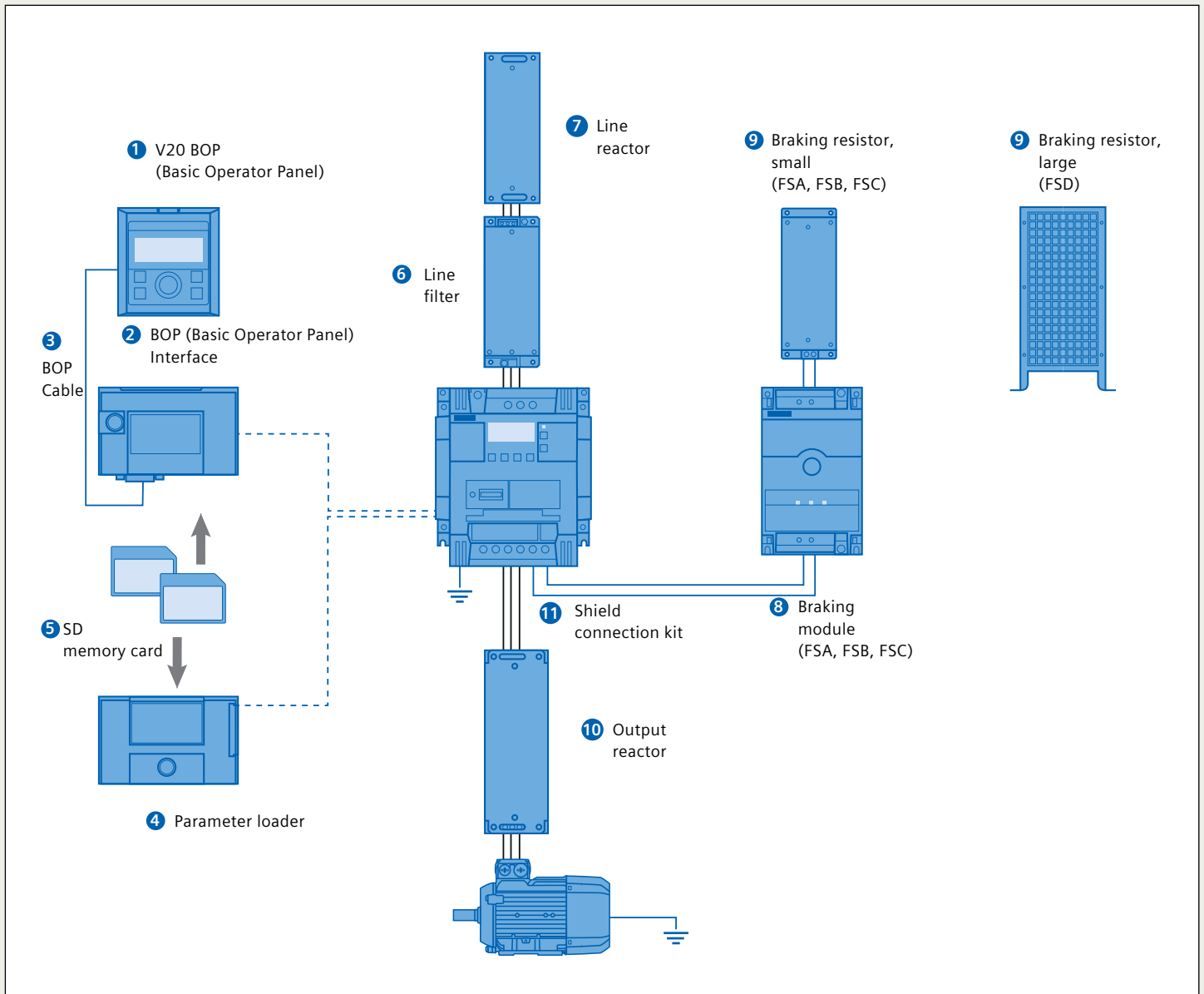
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|---------|-----------------------------------|
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For more information about service and support, visit:
[siemens.com/automation/support-request](https://www.siemens.com/automation/support-request)



Full range of options — everything you need...

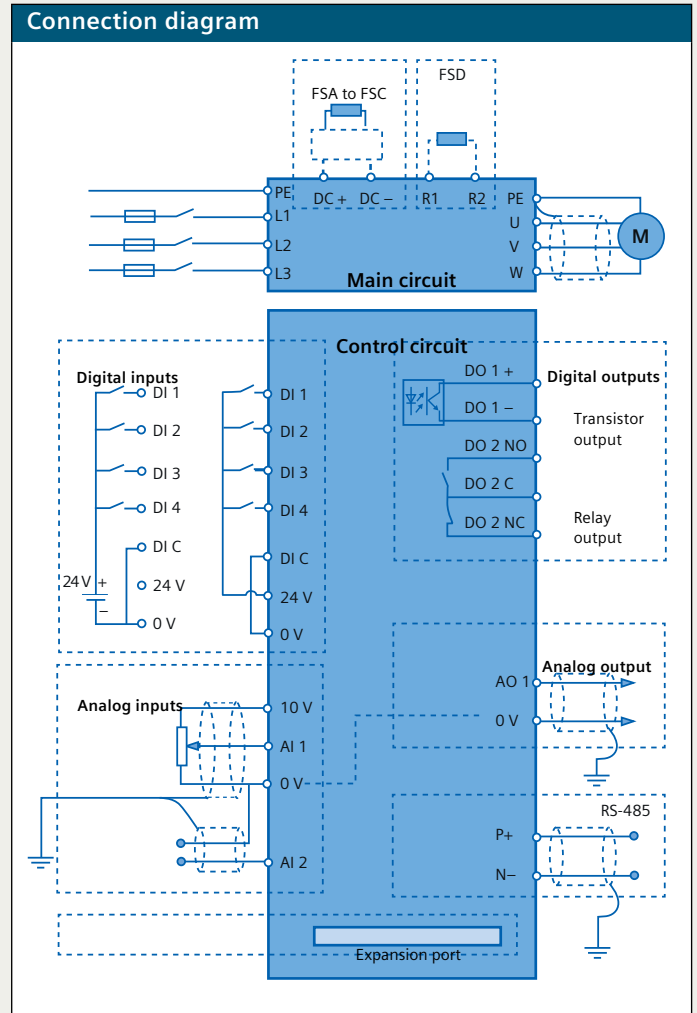


| Options | | |
|---------|------------------|---|
| 1 | V20 BOP | Same function as the integrated BOP (Basic Operator Panel), but can be used for remote mounting. The value and setpoint are changed by rotating the wheel. |
| 2 | BOP interface | <ul style="list-style-type: none"> • Connection between drive and BOP • Integrated SD/MMC card slot for parameter cloning |
| 3 | BOP cable | 3 m cable with connectors |
| 4 | Parameter loader | Up to 100 parameter sets with parameter settings can be written from the memory card to the drive or saved from the drive to the memory card without connecting the drive to the line supply. |
| 5 | SD memory card | SIMATIC SD memory card |
| 6 | Line filter | <ul style="list-style-type: none"> • Improved EMC performance • Longer motor cable for FSA |

| Options | | |
|---------|-----------------------|--|
| 7 | Line reactor | <ul style="list-style-type: none"> • Suppresses the harmonic current • Improves the power factor |
| 8 | Braking module | <ul style="list-style-type: none"> • Shortens the deceleration ramp time • Suitable for 1AC 230 V and 3AC 400 V • Adjustable duty cycle from 5 % to 100 % • FSD already has an integrated braking unit |
| 9 | Braking resistor | <ul style="list-style-type: none"> • Dissipates regenerative energy as heat • 5 % duty cycle as default setting |
| 10 | Output reactor | Longer motor cable: <ul style="list-style-type: none"> • 3AC 400 V shielded and unshielded cable: 150 m • 1AC 230 V shielded and unshielded cable: 200 m |
| 11 | Shield connection kit | <ul style="list-style-type: none"> • Shield connection • Strain relief |

Technical data

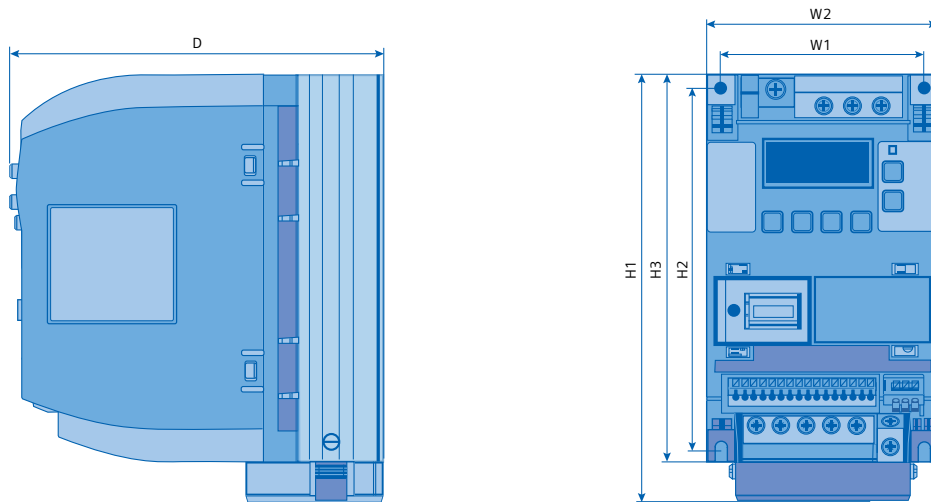
| Power and control | |
|---------------------------|---|
| Voltage | 1AC 230 V: 1AC 200 V ... 240 V (-10 % ... + 10 %) 3AC 400 V: 3AC 380 V ... 480 V (-15 % ... + 10 %) |
| Maximum output voltage | 1AC 230 V: 240 V 3AC 400 V: 480 V |
| Supply frequency | 50/60 Hz |
| Line supply type | TN, TT, IT, TT earthed line |
| Power range | 1AC 230 V 0.12 ... 3.0 kW (1/6 ... 4 hp) 3AC 400 V 0.37 ... 15.0 kW (1/2 ... 20 hp) |
| Power factor | 0.72 |
| Overload | 150 % rated output current for 60 s, cycle time 600 s |
| Output frequency | 0 ... 599 Hz resolution: 0.01 Hz |
| Efficiency factor | 98 % |
| Control modes | Voltage/frequency control mode: linear V/f, square law V/f, multi-point V/f Flux current control mode: FCC |
| Standards | |
| Standards | CE, cULus, C-tick, KC |
| EMC standards | 1AC 230 V with integrated line filter according to EN 61800-3 C2 3AC 400 V with integrated line filter according to EN 61800-3 C3 |
| Features | |
| Energy saving | <ul style="list-style-type: none"> • ECO mode • Hibernation mode • Energy consumption monitoring |
| Ease of use | <ul style="list-style-type: none"> • Connection and application macro • Parameter cloning • Keep Running Mode • USS/MODBUS RTU communication • Customized default value • Automatic restart • Flying start • DC-link voltage control • I_{max} control |
| Application | <ul style="list-style-type: none"> • PID controller • BICO function • Hammer start • Super torque mode • Blockage clearing mode • Motor staging • Flexible boost control • Wobble function • Slip compensation • Dual ramp • Adjustable PWM modulation |
| Protection | <ul style="list-style-type: none"> • Frost protection • Condensation protection • Cavitation protection • Kinetic buffering • Load failure detection |
| Signal inputs and outputs | |
| Analog inputs | AI1: bipolar current / voltage mode AI2: unipolar current / voltage mode Can be used as digital inputs |
| Analog outputs | AO: 0 ... 20 mA |
| Digital inputs | DI1–DI4, optically isolated PNP/NPN selectable by terminal |
| Digital outputs | DO1: transistor output, DO2: relay output – 250 V AC 0.5 A with resistive load – 30 V DC 0.5 A with resistive load |



| Mounting and environment | |
|--------------------------|--|
| Degree of protection | IP20 |
| Mounting | Wall mounting, side-by-side mounting, push-through mounting for FSB, C and D |
| Cooling | <ul style="list-style-type: none"> • FSA up to 0.75 kW: convection cooling • FSA, FSB, FSC, FSD: power electronics cooled using heat sinks with external fan |
| Ambient temperature | In operation <ul style="list-style-type: none"> • 0 ... 60 °C (32 ... 140 °F) • 40 ... 60 °C (104 ... 140 °F) with derating Storage <ul style="list-style-type: none"> • -40 ... 70 °C (-40 ... 158 °F) |
| Relative humidity | 95 % (non-condensing) |
| Altitude | <ul style="list-style-type: none"> • Up to 4000 m above sea level • 1000 ... 4000 m: output current derating • 2000 ... 4000 m: supply voltage derating |
| Motor cable length | <ul style="list-style-type: none"> • Unshielded cable: 50 m • Shielded cable: 25 m; • 10 m for FSA filtered version • Longer motor cables possible with output reactor (see options) |
| Dynamic braking | Option module for FSA, FSB and FSC; integrated for FSD |

Dimensions

SINAMICS V20

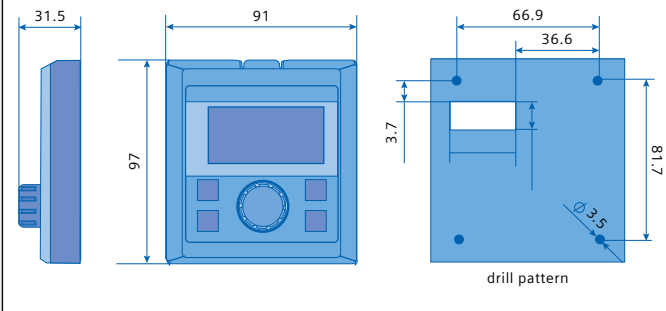


| Frame size | Width (mm) | | Height (mm) | | | Depth (mm) | Weight (kg) |
|-----------------|------------|-----|-------------|-----|-----|------------|-------------|
| | W1 | W2 | H1 | H2 | H3 | | |
| FSA without fan | 79 | 90 | – | 140 | 150 | 145.5 | 1 |
| FSA | 79 | 90 | 166 | 140 | 150 | 145.5 | 1.05 |
| FSB | 127 | 140 | 160 | 135 | – | 164.5 | 1.8 |
| FSC | 170 | 184 | 182 | 140 | – | 169 | 2.6 |
| FSD | 223 | 240 | 206.5 | 166 | – | 172.5 | 4.3 |

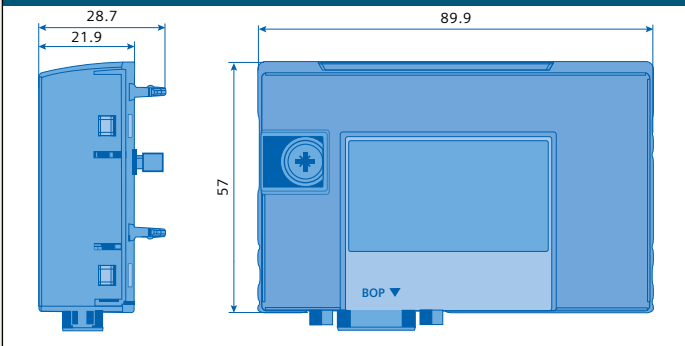
1AC 230 V options

| P _{rated} kW 1AC 230 V | FS | Braking resistors | | | | Line reactors | | | | Output reactors | | | | Braking module | | | | EMC filter | | | |
|------------------------------------|----|-------------------|-----|------|-----|---------------|-----|----|-----|-----------------|-----|----|-----|----------------|-----|----|------|------------|-----|------|-----|
| | | W | H | D | WT | W | H | D | WT | W | H | D | WT | W | H | D | WT | W | H | D | WT |
| 0.12 | A | 230 | 72 | 43.5 | 1 | 75.5 | 200 | 50 | 1.4 | 75 | 200 | 50 | 1.3 | 90 | 150 | 80 | 0.71 | 73 | 200 | 43.5 | 0.5 |
| 0.25 | | | | | | | | | | | | | | | | | | | | | |
| 0.37 | | | | | | | | | | | | | | | | | | | | | |
| 0.55 | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | B | 239 | 149 | 43.5 | 1.6 | 150 | 213 | 50 | 2.2 | 150 | 213 | 80 | 4.1 | 90 | 150 | 80 | 0.71 | 149 | 213 | 50.5 | 1 |
| 1.5 | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | C | 285 | 185 | 150 | 3.8 | 185 | 245 | 50 | 5.1 | 185 | 245 | 80 | 6.6 | 90 | 150 | 80 | 0.71 | – | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |

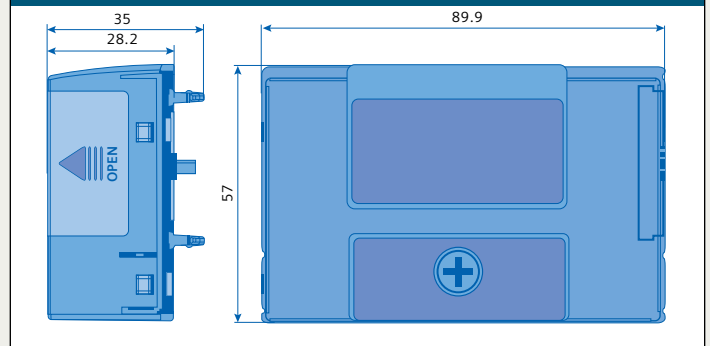
V20 BOP (Basic Operator Panel)



BOP (Basic Operator Panel) interface



Parameter loader



3AC 400 V options

| P _{rated} kW 3AC 400 V | FS | Braking resistors | | | | Line reactors | | | | Output reactors | | | | Braking module | | | | EMC filter | | | |
|------------------------------------|-----|-------------------|-----|------|-----|---------------|-----|----|-----|-----------------|-----|-----|-----|----------------|-----|----|------|------------|-----|----|------|
| | | W | H | D | WT | W | H | D | WT | W | H | D | WT | W | H | D | WT | W | H | D | WT |
| 0.37 | A | 72 | 230 | 43.5 | 1 | 75.5 | 200 | 50 | 0.8 | 75.5 | 200 | 110 | 2 | 90 | 150 | 80 | 0.71 | 73 | 202 | 65 | 1.75 |
| 0.55 | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | B | 149 | 239 | 43.5 | 1.6 | 150 | 213 | 50 | 1.3 | 150 | 213 | 70 | 3.4 | | | | | 100 | 297 | 85 | 4 |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | D | 185 | 285 | 150 | 3.8 | 185 | 280 | 50 | 2.3 | 150 | 213 | 80 | 5.6 | integrated | | | | 140 | 359 | 95 | 7.3 |
| 5.5 | | | | | | | | | | | | | | | | | | | | | |
| 7.5 | | | | | | | | | | | | | | | | | | | | | |
| 11 | 270 | 515 | 175 | 7.4 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

Simple entry using the DT Configurator

The DT Configurator supports you with:

- Selecting the drive based on the application
- The subsequent ordering process

DT Configurator supplies you with

- A drive that is optimally tailored to your requirements
- 2D / 3D models
- Operating instructions
- Data sheets

You can directly order the selected components through the Industry Mall — the Siemens e-commerce website — and without having to duplicate entries. In order to avoid ordering mistakes, the order number is checked to ensure that it is correct.

siemens.com/dt-configurator



Ordering data

1AC 230 V

| Rated data | | | Order number | Fans | Frame size |
|-----------------------|-----------------------|--------------------|--------------------|------|------------|
| P _{rated} kW | P _{rated} hp | I _{out} A | | | |
| 0.12 | 1/6 | 0.9 | 6SL3210-5BB11-2 V0 | – | FSA |
| 0.25 | 1/4 | 1.7 | 6SL3210-5BB12-5 V0 | – | |
| 0.37 | 1/2 | 2.3 | 6SL3210-5BB13-7 V0 | – | |
| 0.55 | 3/4 | 3.2 | 6SL3210-5BB15-5 V0 | – | |
| 0.75 | 3/4 | 3.9 | 6SL3210-5BB17-5 V0 | – | |
| 0.75 | 1 | 4.2 | 6SL3210-5BB18-0 V0 | 1 | FSB |
| 1.1 | 1-1/2 | 6 | 6SL3210-5BB21-1 V0 | 1 | |
| 1.5 | 2 | 7.8 | 6SL3210-5BB21-5 V0 | 1 | FSC |
| 2.2 | 3 | 11 | 6SL3210-5BB22-2 V0 | 1 | |
| 3 | 4 | 13.6 | 6SL3210-5BB23-0 V0 | 1 | |

Spare parts

| Frame size | Order number |
|-----------------|--------------------|
| Replacement fan | |
| FSA | 6SL3200-0UF01-0AA0 |
| FSB | 6SL3200-0UF02-0AA0 |
| FSC | 6SL3200-0UF03-0AA0 |
| FSD | 6SL3200-0UF04-0AA0 |

EMC Standards

| | |
|---|---|
| With integrated line filter category C2 | A |
| Without integrated filter | U |

1AC 230 V Options

| FS | P _{rated} kW 1AC 230 V | Braking resistor 6SE6400... | Line reactor 6SE6400... | Output reactor 6SE6400... | Shield connection kit 6SL3266... | EMC filter 6SE6400... |
|----|------------------------------------|--------------------------------|----------------------------|------------------------------|-------------------------------------|--------------------------|
| A | 0.12 | 4BC05-0AA0 | 3CC00-4AB3 | 3TC00-4AD3 | 1AA00-0VA0 | 2FL01-0AB0 |
| | 0.25 | | | | | |
| | 0.37 | | 3CC01-0AB3 | | | |
| | 0.55 | | | | | |
| | 0.75 | | | | | |
| B | 1.1 | 4BC11-2BA0 | 3CC02-6BB3 | 3TC01-0BD3 | 1AB00-0VA0 | 2FL02-6BB0 |
| | 1.5 | | | | | |
| C | 2.2 | 4BC12-5CA0 | 3CC03-5CB3 | 3TC03-2CD3 | 1AC00-0VA0 | – |
| | 3 | | | | | |

3AC 400 V

| Rated data | | | | Order number | Fans | Frame size |
|--------------------------|--------------------------|-----------------------------|-----------------------------|-----------------|------|------------|
| P _{rated} kW | P _{rated} hp | I _{out} A 400 V | I _{out} A 480 V | | | |
| 0.37 | 1/2 | 1.3 | 1.3 | 6SL3210-5BE13-7 | V0 | – |
| 0.55 | 3/4 | 1.7 | 1.6 | 6SL3210-5BE15-5 | V0 | – |
| 0.75 | 1 | 2.2 | 2.2 | 6SL3210-5BE17-5 | V0 | – |
| 1.1 | 1-1/2 | 3.1 | 3.1 | 6SL3210-5BE21-1 | V0 | 1 |
| 1.5 | 2 | 4.1 | 4.1 | 6SL3210-5BE21-5 | V0 | 1 |
| 2.2 | 3 | 5.6 | 4.8 | 6SL3210-5BE22-2 | V0 | 1 |
| 3 | 4 | 7.3 | – | 6SL3210-5BE23-0 | V0 | 1 |
| 4 | 5 | 8.8 | 8.24 | 6SL3210-5BE24-0 | V0 | 1 |
| 5.5 | 7-1/2 | 12.5 | 11 | 6SL3210-5BE25-5 | V0 | 1 |
| 7.5 | 10 | 16.5 | 16.5 | 6SL3210-5BE27-5 | V0 | 2 |
| 11 | 15 | 25 | 21 | 6SL3210-5BE31-1 | V0 | 2 |
| 15 | 20 | 31 | 31 | 6SL3210-5BE31-5 | V0 | 2 |

| EMC Standards | |
|---|---|
| With integrated line filter category C3 | C |
| Without integrated filter | U |

3AC 400 V Options

| FS | P _{rated} kW 3AC 400 V | Braking resistor 6SE6400... | Line reactor 6SE6400... | Output reactor 6SE6400... | Shield connection kit 6SL3266... | EMC filter 6SL3203... |
|----|------------------------------------|--------------------------------|----------------------------|------------------------------|-------------------------------------|--------------------------|
| A | 0.37 | 4BD11-0AA0 | 3CC00-2AD3 | 3TC00-4AD2 | 1AA00-0VA0 | 0BE17-7BA0 |
| | 0.55 | | | | | |
| | 0.75 | | | | | |
| | 1.1 | | 3CC00-4AD3 | | | |
| | 1.5 | | 3CC00-6AD3 | | | |
| B | 2.2 | 4BD12-0BA0 | 3CC01-0BD3 | 3TC01-0BD3 | 1AB00-0VA0 | 0BE21-8BA0 |
| | 3 | | 3CC01-4BD3 | | | |
| C | 4 | 4BD16-5CA0 | 3CC02-2CD3 | 3TC03-2CD3 | 1AC00-0VA0 | 0BE23-8BA0 |
| | 5.5 | | | | | |
| D | 7.5 | 4BD21-2DA0 | 3CC03-5CD3 | 3TC05-4DD0 | 1AD00-0VA0 | 0BE23-8BA0 |
| | 11 | | 3CC04-4DD0 | | | |
| | 15 | | | | | |

FS = frame size, WT = weight in kg, W = width in mm, H = height in mm, D = depth in mm

| Name | Order number |
|---|--------------------|
| Parameter loader | 6SL3255-0VE00-0UA0 |
| BOP (Basic Operator Panel) interface | 6SL3255-0VA00-2AA0 |
| Braking module 1AC 230 V 8 A, 3AC 400 V 7 A | 6SL3201-2AD20-8VA0 |
| V20 BOP (Basic Operator Panel) | 6SL3255-0VA00-4BA0 |
| BOP (Basic Operator Panel) cable 3 m | 6SL3256-0VP00-0VA0 |
| SIMATIC memory card (SD memory card) | 6ES7954-8LB01-0AA0 |
| RS-485 Terminator (Quantity unit 50 pcs) | 6SL3255-0VC00-0HA0 |

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Order No. DRBR-V2001-0113
Printed in USA
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