



Siemens Certified Partner Industry, RC

SIEMENS

SINAMICS Low Voltage Converters

Efficient. Versatile. Fit for the future. Simply my drive.

siemens.com/sinamics

The SINAMICS family for all power & performance classes

Always the optimum version – for every application, power rating and requirement: The wide range of SINAMICS converters has precisely the solution you require for your application.



SINAMICS – versatility for maximum efficiency



Extensive portfolio

Customized power, performance and functionality: SINAMICS converters have a huge degree of flexibility – and also provide future-proof solutions for your applications.



Digitalization

SINAMICS converters are ready & prepared for the digital era: Operating data can be directly transferred to Cloud platforms via MindConnect. The information collected there can help to make your plant or system more productive in the future and reduce downtimes to a minimum.



Efficient engineering

Powerful tools support you over the complete lifecycle when configuring, engineering, commissioning and troubleshooting your SINAMICS drive solution. Further, these tools also help you optimize your processes.

Experience more: siemens.com/medium-voltage-converter



* Being prepared



Safety Integrated

Maximum safety for operating and maintenance personnel: Safety functions are already integrated in our SINAMICS drives. You benefit from shorter response times, a higher degree of cost-effectiveness and lower wiring costs.



Drive-system solution

Profit from our modular automation concept that can be scaled as required: SINAMICS converters operate perfectly with SIMOTICS motors, SIMOGEAR geared motors – as well as SIMATIC, SINUMERIK and SIMOTION control systems. All of the components communicate seamlessly via PROFINET.



Services across the complete lifecycle

From spare parts management up to optimized maintenance concepts:
Based on customized service quotations for your SINAMICS converters, you can sustainably secure maximum availability and productivity of your plants and systems.

The optimum converter for each and every application

Depending on the actual power rating and functionality, the following converters are available, for example:

Pumping/ventilating/compressing



SINAMICS V20
SINAMICS G120X
SINAMICS G130 / G150
SINAMICS G180

SINAMICS supports the continuous and energy-efficient operation of pumps, fans and compressors – either running continuously or requiring a high dynamic performance. The advantages include especially precise flow control, short response times – and the avoidance of damaging vibration levels and cavitation.

Moving



SINAMICS G120C

Energy-efficient and rugged solutions for basic conveyor technology with roller or chain conveyors, for hoisting gear and elevators – as well as for storage and retrieval machines that demand a high dynamic performance – and always with Safety Integrated onboard.



Positioning



When high dynamic performance and precision are demanded: SINAMICS ensures precise positioning of individual axes, allows several axes to be interpolated in a coordinated fashion – for example as required in complex robotic applications.

Processing



SINAMICS is the ideal solution for continuously running processes de manding high speed and torque precision, for instance, for extruders, centrifuges, agitators and all types of production machines – motion control, isochronous communication and Safety Integrated.

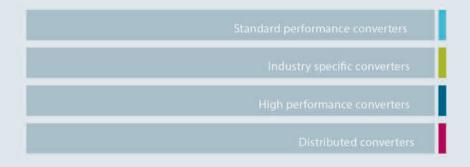
Machining



Whether high-speed spindles or feed and auxiliary axes for turning, milling, drilling and sawing: SINAMICS is the perfect drive for all applica tions in material processing. Fast adaptability and minimum equipping times play a decisive role when it comes to achieving high productivity.

SINAMICS S120

SINAMICS low voltage converters



Powerful and flexible



Highlights

- The perfect solution for basic applications
- · Easy to install
- Easy to use

Applications







Pumping/ Ventilating/ Compress-

Moving

Processing

SINAMICS V20 Simple. Rugged. Efficient.

Format	Built-in unit (compact)
Drive concept	AC/AC
Degree of protection	IP20/UL open type
Supply voltage/power kW (hp)	
1AC 200 240 V	0.12 3 kW (0.16 4 hp)
3AC 380 480 V	0.37 30 kW (0.5 40 hp)
Energy recovery	No
Control modes	V/f (linear, square law, FCC, ECO)
Ambient temperature	–10 °C to 40 °C without derating/to 60 °C with derating
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3/C2/C1
	Without integrated line filter for environments according to EN 61800-3 Category C4
Braking chopper	External braking chopper
Safety functions	No
Communication	USS/Modbus RTU
TIA Portal connected	No
Commissioning tools	BOP-2, V20 Smart Access Module
Controller	SIMATIC S7-1200
Recommended motors	SIMOTICS GP/SD (standard induction motors, aluminum/cast iron)



SINAMICS G120C Versatile. User-friendly. Compact.

Format	Built-in unit (compact)		
Drive concept	ACIAC		
Degree of protection	IP20/UL open type		
Supply voltage/power kW (hp)			
3AC 380 480 V	0.55 132 kW (0.75 150 hp)		
Energy recovery	No		
Control modes	V/f (linear, square law, FCC, ECO), sensorless vector control (SLVC)		
Ambient temperature	–10 °C to 40 °C without derating/to 60 °C with derating		
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3/C2		
	Without integrated line filter for environments according to EN 61800-3 Category C4		
Braking chopper	Integrated braking chopper		
Safety functions	STO		
Communication	Frame size FSAA 0.55 kW to FSC 18.5 kW available with PROFINET, PROFIBUS DP, EtherNet/IP, USS/Modbus RTU		
	Frame size FSD 22 kW to FSF 132 kW available with PROFINET		
TIA Portal connected	Yes		
Commissioning tools	BOP-2, IOP-2, G120 Smart Access Module, SINAMICS Startdrive		
Controller	SIMATIC S7-1200, SIMATIC ET200		
Recommended motors	SIMOTICS GP/SD (standard induction motors, aluminum/cast iron)		
	SIMOGEAR (geared motors)		



Highlights

- · Compact for simple installation in the smallest space
- · Simple commissioning and operator control
- · Perfect integration in the automation environment
- Integrated safety technology

Applications







Pumping/ Ventilating/ Compress-

Moving

Processing

SIMOGEAR (geared motors)

siemens.com/sinamics-g120c

siemens.com/sinamics-selector

siemens.com/dt-configurator







SINAMICS G120 Multifunctional. Combinable. Safety Integrated.

Format	Built-in unit (modular) Power Module, Control Unit, commissioning options	
Drive concept	ACIAC	
Degree of protection	IP20/UL open type	
Supply voltage/power kW (hp)		
1AC/3AC 200 240 V	0.55 4 kW (0.75 5 hp), Power Module PM240-2	
3AC 200 240 V	5.5 55 kW (7.5 60 hp), Power Module PM240-2	
3AC 380 480 V	0.55 250 kW (0.75 400 hp), Power Module PM240-2	
3AC 380 480 V	7.5 90 kW (10 125 hp), Power Module PM250	
3AC 500 690 V	11 250 kW (10 400 hp bei 600 V), PM240-2	
Control unit	Control Unit CU230P-2, CU240E-2, CU240E-2 F, CU250S-2	
Energy recovery	In conjunction with PM250 Power Modules	
Control modes	V/f (linear, square law, FCC, ECO), vector control with and without encoder (VC, SLVC)	
Ambient temperature	$-10~^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$ without derating/to 60 $^{\circ}\text{C}$ with derating	
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3/C2	
	Without integrated line filter for environments according to EN 61800-3 Category C4	
Braking chopper	Integrated braking chopper for PM240-2 Power Modules	
Safety functions	STO, SS1, SBC, SLS, SDI, SSM	
Communication	PROFINET, PROFIBUS DP, EtherNet/IP, USS/Modbus RTU, CANopen, PROFIsafe	
TIA Portal connected	Yes	
Commissioning tools	BOP-2, IOP-2, G120 Smart Access Module, SINAMICS Startdrive	
Controller	SIMATIC ET200, SIMATIC S7-1500, SIMATIC PCS 7	

Highlights

- High degree of flexibility and combinability
- Higher-level, standard safety concept
- Wide range of power ratings

Applications







Processing

Pumping/ Ventilating/ Compress-

Moving /

19



Positioning

Modular design



Recommended motors

SIMOTICS GP/SD (standard induction motors, synchronous-reluctance motors aluminum/cast iron)

SIMOGEAR (geared motors)

SIMOTICS TN (trans-standard motors)

SIMOTICS M-1PH8 (compact induction motors)

SIMOTICS XP (explosion-protected motors)

siemens.com/sinamics-g120

siemens.com/sinamics-selector



SINAMICS G130/G150 Multifunctional. User-friendly. Rugged.

Format	G130: Built-in unit (modular) G150: Cabinet unit			
Drive concept	ACIAC			
Degree of protection	G130: IP00 / IP20 G150: IP20 Optional: IP21, IP23, IP43, IP54			
Supply voltage/power kW (hp)				
3AC 380 480 V	110 560 kW (150 800 hp) (G130) 110 900 kW (150 800 hp) (G150)			
3AC 500 600 V	110 560 kW (150 800 hp) (G130) 110 1000 kW (150 800 hp) (G150)			
3AC 660 690 V	75 800 kW (85 810 hp) (G130) 75 2700 kW (85 810 hp) (G150)			
Energy recovery	No			
Control modes	Sensorless vector control or V/f control			
Ambient temperature	0 °C to 40 °C without derating/to 55 °C with derating			
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3/C2 (optional)			
Braking chopper	G130: System component Braking Module G150: Braking Module optional			
Safety functions	STO, SS1, SBC, SLS, SDI, SSM, SBT			
Communication	PROFINET, PROFIBUS DP, EtherNet/IP, USS, CANopen, PROFIsafe			
TIA Portal connected	Yes			
Commissioning tools	BOP20, AOP30, SINAMICS Startdrive			
Controller	SIMATIC ET200, SIMATIC S7-1500, SIMATIC PCS 7			





Highlights

- Applications: Pumps, fans, compressors, extruders, mixers, mills etc.
- Service-friendly thanks to device modules that are easy to access
- 100% line supply voltage at the motor without any secondary effects
- When required, with integrated line harmonics filter and du/dt filter

Applications







Pumping/ Ventilating/ Compress-

Moving

Processing

Recommended motors

SIMOTICS GP/SD (standard induction motors aluminum/cast iron)

SIMOTICS TN (trans-standard motors)

SIMOTICS FD (compact induction motor with different cooling concepts)

SIMOTICS HT (low-speed permanent magnet synchronous motors)





SINAMICS G180 Multifunctional. Industry specific. Seamless across the system.

Highlights

- Industry specific features such as du/dt filter and PTC evaluation
- Applications: Pumps, fans, extruders, compressors – also in hazardous zones
- Voltage levels: 400 V/500 V/690 V
- Line side: 6 to 24 pulse or LHF (Line Filter)
- From 200 kW, air or liquid cooled
- ATEX-certified for motors in hazardous zones

Applications







Pumping/ Ventilating Compress-

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Pr	0	CE	25	Si	n	g

Format	Built-in unit (compact) Cabinet unit		
Drive concept	ACIAC		
Degree of protection	Compact devices: IP20 (optional IP21)		
	Cabinet units/systems: IP21 (higher degrees of protection up to IP54 optional)/with water cooling, IP54		
Supply voltage/power kW (hp)			
3AC 380 480 V	2.2 200 kW, compact device 250 630 kW, cabinet unit		
3AC 480 500 V	2.2 160 kW, compact device 250 800 kW, cabinet unit		
3AC 500 690 V	7.5 200 kW, compact device 250 6000 kW, cabinet unit		
Energy recovery	No		
Control modes	V/f (linear, square law) Vector control with and without encoder (SLVC) Field-oriented control (FOC) with encoder and certification for explosion protection		
Ambient temperature	−10 °C to 40 °C		
Line filter	Compact devices: with integrated line filter for environments according to EN 61800-3 Category C2/C1 (optional)		
	Cabinet units: with integrated line filter for environments according to EN 61800-3 Category C3		
	Compact devices, cabinet units for IT line systems: with integrated line filter for environments according to EN 61800-3 Category C4		
Braking chopper	Yes		
Safety functions	STO, ATEX-certified PTC thermistor input for explosion- protected motors		
Communication	PROFIBUS DP, EtherNet/IP, Modbus TCP/IP, Modbus RTU, CANopen, on request: PROFINET		
TIA Portal connected	No		
Controller	SIMATIC ET200, SIMATIC S7-1500, SIMATIC PCS 7		

siemens.com/sinamics-g180
siemens.com/dt-configurator

Recommended motors

SIMOTICS GP/SD (standard induction motors aluminum/cast iron)

SIMOTICS TN (trans-standard motors)

SIMOTICS FD (compact induction motors with different cooling concepts)

SIMOTICS XP (explosion-protected motors)

SINAMICS G120X Flexible. Combinable. Application-specific.

Format	Built-in unit (compact)		
Drive concept	AC/AC		
Degree of protection	IP20, UL open type, IP21 (roof top kit)		
Supply voltage/power kW (hp)			
3AC 380 480 V	0.75 560 kW / 1 700 hp		
3AC 500 690 V	3 630 kW / 4 700 hp		
Energy recovery	No		
Control modes	V/f (linear, square law, FCC, ECO), sensorless vector control (SLVC)		
Ambient temperature	-20 °C to 45 °C (60 °C with derating¹)		
Line filter	According to EN 61800-3, with integrated line filter for environments Category C3/C2; optional C1 with external filter B		
Braking chopper	No		
Safety functions	STO		
Communication	PROFINET, PROFIBUS, EtherNet/IP, Modbus RTU, USS, BACnet MS/TP2, Wi-Fi über SINAMICS G120 Smart Access Module		
TIA Portal connected	No, only via GSD file		
Commissioning tools	BOP-2, IOP-2, G120 Smart Access Module		
Controller	SIMATIC S7-1500/1200/400, Desigo PX		



SIMOTICS GP/SD (synchronous reluctance motors with aluminum/cast iron enclosures)

SIMOTICS GP/SD (standard induction motors with aluminum/cast iron enclosures)

SIMOTICS FD (compact induction motors with different cooling concepts)

SIMOTICS DP (smoke extraction motors)





Highlights

- The infrastructure drive for pump/fan applications in water/wastewater industries and building technology
- Seamless range of power ratings available in 9 frame sizes extending from 0.75 – 630 kW
- Simple selection and ordering using just one order number – and immediately ready to run
- Impressively efficient with specific industry and energy efficiency functions

Application



Pumping/ Ventilating Compressing

siemens.com/sinamics-g120x siemens.com/sinamics-selector

siemens.com/dt-configurator



¹The max temperature is 55 °C for PN version drives



Highlights

- Modular system for high performance
- High degree of scalability, flexibility, combinability

Applications



Processing

SINAMICS S150 Multifunctional. Precise. Capable of energy recovery.

Format	Cabinet unit		
Drive concept	AC/AC		
Degree of protection	IP20, optional: IP21, IP23, IP43, IP54		
Supply voltage/power kW (hp)			
3AC 380 480 V	110 800 kW (150 1150 hp)		
3AC 500 690 V	75 1200 kW (75 1250 hp)		
Energy recovery	Yes		
Control modes	V/f control Vector control with and without encoder Servo control with and without encoder		
Ambient temperature	0 °C to 40 °C		
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3/C2 Without line filter for environments according to EN 61800-3 Category C4		
Braking chopper	Yes (optional)		
Safety functions	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SLP, SP, SBT, SLA, SCA		
Communication	PROFINET, PROFIBUS DP, EtherNet/IP, USS (no CU310), CANopen (CU320-2), Modbus TCP, PROFIsafe		
TIA Portal connected	Yes		
Commissioning tools	SINAMICS Startdrive, SCOUT, web server		
Controller	SIMATIC, SIMOTION		
Recommended motors	SIMOTICS SD, XP, DP, FD, TN, HT, M		



Precise and with a high dynamic performance



SINAMICS V90 Simple. Precise. System-based.

Highlights

- · Optimized servo performance thanks to One-Button-Tuning and **Auto-Tuning**
- · Simple to operate complete solution for motion control applications
- Together with a SIMATIC controller, a strong team in the TIA Portal

Applications







Processing

Positioning Machining

Format	Built-in unit (compact)		
Drive concept	AC/AC		
Degree of protection	Converters: IP20		
	Motor: IP65		
Supply voltage/power kW (hp)			
1AC / 3AC 200 240 V	0.10 0.75 kW (0.07 1.02 hp)		
3AC 200 240 V	1.0 2 kW (0.7 2.7 hp)		
3AC 380 480 V	0.40 7 kW (0.54 10 hp)		
Energy recovery	-		
Control modes	Servo control with encoder		
Ambient temperature	0 °C to 45 °C without derating/to 55 °C with derating		
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3		
Braking chopper	Yes		
Safety functions	STO via terminal		
Communication	Pulse/direction interface, USS/Modbus RTU, PROFINET		
TIA Portal connected	Yes, via the Hardware Support Package		
Commissioning tools	SINAMICS V-ASSISTANT		
Controller	SIMATIC S7-1200, SIMATIC S7-1500		
Recommended motors	SIMOTICS S-1FL6 (servomotors)		





Highlights

- · Modular system for high performance
- · High degree of scalability, flexibility, combinability

Applications S120







Pumping/ Ventilating/ Compress-

Processing Positioning





Machining Moving

SINAMICS S120 Universal. Precise. Safety Integrated.

	S120	S120
	High-performance application	High-performance application
Format	Built-in unit Blocksize (modular)	Built-in unit Booksize (modular)
Structure	Control Unit + Power Module	Control Unit + infeed + Motor Module
Drive concept	ACIAC	DC/AC
Degree of protection	IP20	IP00 / IP20
Supply voltage/power kW (hp)		
1/3AC 200 240 V	0.55 4 kW (0.75 5 hp at 240 V)	-
3AC 200 240 V	5.5 55 kW (7.5 60 hp at 240 V)	-
3AC 380 480 V	0.55 250 kW (0.75 400 hp at 480 V)	1.6 107 kW (1.5 150 hp at 400 V)
3AC 500 690 V	11 250 kW (10 400 hp at 600 V)	ω.
Energy recovery	No	Yes, depending on the infeed
Control modes	V/f control, vector control with/witho Servo control with encoder	out encoder
Ambient temperature	0 °C to 40 °C	
Line filter	With integrated line filter for environments according to EN 61800-3 Category C3/C2	With integrated line filter for envi- ronments according to EN 61800-3 Category C3/C2 (optional)
	Without line filter for environments according to EN 61800-3 Category C4	Without line filter for environ- ments according to EN 61800-3 Category C4
Braking chopper	Integrated braking chopper for PM240-2 Power Modules	Yes (optional)
Safety functions	STO, SS1, SBC, SOS, SS2, SLS, SSM, S	DI, SLP, SP, SBT, SLA, SCA
Communication	PROFINET, PROFIBUS DP, EtherNet/IP, CANopen (CU320-2), Modbus TCP	USS (kein CU310),
TIA Portal connected	Yes, PROFIsafe	
Commissioning tools	SINAMICS Startdrive, SCOUT, web ser	rver
Control systems	SIMATIC, SINUMERIK, SIMOTION	
Recommended motors	SIMOTICS GP, SD, XP, DP, M, S, L, T	SIMOTICS GP, SD, XP, DP, M, S, L, T

SINAMICS S210 Versatile. Precise. Safety Integrated.

Format	Built-in unit (compact)		
Drive concept	AC/AC		
Degree of protection	IP20		
Supply voltage/power kW (hp)			
1AC 200 240 V	0.1 0.75 kW (0.14 1.02 hp)		
3AC 200 480 V	0.4 7 kW* (0.54 9.5 hp)		
Energy recovery	No		
Control modes	Servo control with encoder		
Ambient temperature	0 °C to 50 °C (32 °F to 122 °F)		
Line filter	1AC devices with integrated line filter for environments according to EN 61800-3 Category C2		
Braking chopper	Integrated braking resistor, motor holding brake control		
Safety functions	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SBT, SLA		
Communication	PROFINET, PROFlenergy, PROFIsafe, PROFIdrive		
TIA Portal connected	Full integration		
Commissioning tools	Web server, SINAMICS Startdrive		
Controller	SIMATIC S7-1500		



Highlights

- Easy commissioning using a web server and One Button Tuning
- Optimized connection system using OCC (one cable connection)
- SIMOTICS S-1FK2 motors for increased performance

Applications







Processing

Positioning

Moving

SIMOTICS S-1FK2 (servomotors)



SINAMICS family – an overview

	Supply voltage	Power (kW)	Powerg (hp)
Low voltage AC	Supply rounge	7.5.437 (1877)	Correig Wild
	145 200 240 V	0.13 2.104	0.16 4.5-
SINAMICS V20	1AC 200 240 V 3AC 380 480 V	0.12 3 kW 0.37 30 kW	0.16 4 hp 0.5 40 hp
TANKS TO SERVICE AND ADDRESS OF THE PARTY OF		TOTAL CONTROL OF THE PARTY OF T	A CONTRACT OF CASE OF
SINAMICS G120C	3AC 380 480 V	0.55 132 kW	0.75 150 hp
SINAMICS G120	1AC / 3AC 200 240 V	0.55 4 kW	0.75 5 hp, PM240-2
	3AC 200 240 V	5.5 55 kW	7.5 60 hp, PM240-2
	3AC 380 480 V	0.55 250 kW	0.75 400 hp, PM240-2
	3AC 380 480 V	7.5 90 kW	10 125 hp, PM250
	3AC 500 690 V	11 250 kW	10 400 hp at 600 V, PM240-2
SINAMICS G130/G150	3AC 380 480 V	110 560 kW	150 800 hp
	3AC 500 600 V	110 560 kW	150 800 hp
	3AC 660 690 V	75 800 kW	85 810 hp
SINAMICS G120X	3AC 380 480 V	0.37 560 kW	0.75 700 hp
	3AC 500 690 V	3 kW 630 kW	1 700 hp
SINAMICS G180	3AC 380 500 V	400 V: 2.2 kW 630 kW	3 857 hp
		500 V: 2.2 kW 800 kW	3 1088 hp
		690 V: 7.5 kW 6700 kW	8 9110 hp
SINAMICS S120	AC 380 480 V	400 V: 1.6 107 kW	1.5 150 hp
		460 V: 110 250 kW	150 400 hp
		460 V: 110 3040 kW	150 4370 hp
		480 V: 0.55 250 kW	0.75 400 hp
	AC 500 690 V	600 V: 11 250 kW	10 400 hp
		575 V: 75 6840 kW	75 1250 hp
SINAMICS S150	3AC 380 480 V	110 800 kW	150 1150 hp
	3AC 500 690 V	75 1200 kW	75 1250 hp
SINAMICS V90	1AC / 3AC 200 240 V	0.1 0.75 kW	0.07 1.02 hp
	3AC 200 240 V	1 2 kW	0.7 2.7 hp
	3AC 380 480 V	0.4 7 kW	0.54 10 hp
SINAMICS S210	1AC 200 240 V	0.1 – 0.75 kW	0.14 1.02 hp
	3AC 200 480 V	0.4 – 7 kW*	0.54 9.5 hp
SINAMICS S120	AC 380 480 V	0.37 90 kW	0.5 120 hp
		110 250 kW	150 340 hp
		1.6 107 kW	2 145 hp
		110 3040 kW	150 4133 hp
		1.6 3000 kW	2 4079 hp
	AC 500 690 V	75 5700 kW	100 7750 hp
SINAMICS S120M	3AC 380 480 V	0.25 1.55 kW	0.3 2 hp

^{*}Being prepared

Communication	Commissioning tools	Safety functions
USS/Modbus RTU	BOP-2, V20 Smart Access Module	No
PROFINET, PROFIBUS DP, EtherNet/IP, USS/Modbus RTU, PROFIsafe	BOP-2, IOP-2, G120 Smart Access Module, SINAMICS Startdrive	STO
PROFINET, PROFIBUS DP, EtherNet/IP, USS/Modbus RTU, CANopen, PROFIsafe	BOP-2, IOP-2, G120 Smart Access Module, SINAMICS Startdrive	STO, SS1, SBC, SLS, SDI, SSM
PROFINET, PROFIBUS DP, EtherNet/IP, USS, CANopen, PROFIsafe	Yes	STO, SS1, SBC, SLS, SDI, SSM, SBT
PROFINET, PROFIBUS DP, EtherNet/IP, USS/ Modbus RTU/BACNet/FLN1	BOP-2, IOP-2, G120 Smart Access Module	STO
PROFIBUS DP, EtherNet/IP, Modbus TCP/IP, Modbus RTU, CANopen, on request: PROFINET	IMS (Inverter Management Software)	STO, ATEX-certified PTC thermistor input for explosion-protected motors
PROFINET, PROFIBUS DP, EtherNet/IP2, USS, CANopen, pulse/direction interface, PROFlenergy, PROFIsafe, PROFIdrive, PROFIsafe	SINAMICS Startdrive	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SLP, SP, SCA, SLA, SBT
PROFINET, PROFIBUS DP, EtherNet/IP, USS, CANopen, PROFIsafe	SINAMICS Startdrive	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SLP, SP, SCA, SLA, SBT
Pulse/direction interface, USS/Modbus RTU, PROFINET	SINAMICS V-ASSISTANT, TIA Portal HSP	STO
OCC (One Cable Connection) PROFINET, EtherNet/IP2, USS, CANopen, pulse/direction interface, PROFIenergy, PROFIsafe, PROFIdrive	Web server, SINAMICS Startdrive	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SBT
PROFINET, PROFIBUS DP, EtherNet/IP2, USS, CANopen, Puls-/Richtungsschnittstelle, PROFlenergy, PROFIsafe, PROFIdrive	Web server, SINAMICS Startdrive	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SLP, SP, SCA, SLA, SBT
PROFINET, PROFIBUS DP, EtherNet/IP2, USS,	SINAMICS Startdrive	STO, SS1, SBC, SOS, SS2, SLS, SSM, SDI, SLP,

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DAT TECHNOLOGY CO., LTD

HEADQUARTERS

B163 Nguyen Van Qua Street, District 12, Ho Chi Minh City, Vietnam

Email info@dattech.com.vn Phone (+84) 283 715 7567 Fax (+84) 283 891 6586

HA NOI BRANCH

Lot 05-10A, Hoang Mai IP, Hoang Van Thu Ward, Hoang Mai District, Ha Noi City Vietnam

Email info.hanoi@dattech.com.vn

Phone (+84) 243 252 5000 Fax (+84) 243 253 5000

CAN THO BRANCH

146 Bui Quang Trình Street, Phu Thu Ward, Cai Rang District, Can Tho City, Vietnam

Email info.cantho@dattech.com.vn

Phone (+84) 292 391 7137 Fax (+84) 292 391 7337