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Motion Control Drives

# SINAMICS Converters for Single-Axis Drives

## SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater

Order overview D 31.5

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# Order overview

SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater

Clicking to the Industry Mall

6SL3255-0AA00-5AA0

## Selection and ordering data

***SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater · Degree of protection IP20/UL Open Type · 380 ... 480 V 3 AC***

| SINAMICS G120X | | | | | | | | Line-side components |
|---|---|---|---|---|---|---|---|---|
| Rated power [1] | | Base-load current $I_L$ [2] | | Rated input current [3] | Frame size | SINAMICS G120X Degree of protection IP20/UL Open Type **without** integrated line filter | SINAMICS G120X Degree of protection IP20/UL Open Type **with** integrated line filter | **Line filters** Category C2 |
| | | | | | | Converters up to 132 kW delivery ex stock | Converters up to 132 kW delivery ex stock | |
| | | | | | | 10 ... 48 | 10 ... 48 | |
| 400 V | 480 V | 400 V | 480 V | 400 V | | | | |
| **kW** | hp | A | A | A | | Article No. ↓↓ | Article No. ↓↓ | Article No. |
| **380 ... 480 V 3 AC · Rated pulse frequency 4 kHz ≤ 90 kW and 2 kHz ≥ 110 kW · Input frequency 47 ... 63 Hz** | | | | | | | | |
| **0.75** | 1 | 2.2 | 2.1 | 2.1 | FSA | 6SL32 ■ 0- ■ YE10- ■ U ■ 0 | 6SL32 ■ 0- ■ YE10- ■ A ■ 0 | SINAMICS G120X available with integrated line filter Category C2 |
| **1.1** | 1.5 | 3.1 | 3 | 2.8 | FSA | 6SL32 ■ 0- ■ YE12- ■ U ■ 0 | 6SL32 ■ 0- ■ YE12- ■ A ■ 0 | |
| **1.5** | 2 | 4.1 | 3.4 | 3.6 | FSA | 6SL32 ■ 0- ■ YE14- ■ U ■ 0 | 6SL32 ■ 0- ■ YE14- ■ A ■ 0 | |
| **2.2** | 3 | 5.9 | 4.8 | 5.5 | FSA | 6SL32 ■ 0- ■ YE16- ■ U ■ 0 | 6SL32 ■ 0- ■ YE16- ■ A ■ 0 | |
| **3** | 4 | 7.7 | 6.2 | 6.9 | FSA | 6SL32 ■ 0- ■ YE18- ■ U ■ 0 | 6SL32 ■ 0- ■ YE18- ■ A ■ 0 | |
| **4** | 5 | 10.2 | 7.6 | 9.8 | FSB | 6SL32 ■ 0- ■ YE20- ■ U ■ 0 | 6SL32 ■ 0- ■ YE20- ■ A ■ 0 | |
| **5.5** | 7.5 | 13.2 | 11 | 12 | FSB | 6SL32 ■ 0- ■ YE22- ■ U ■ 0 | 6SL32 ■ 0- ■ YE22- ■ A ■ 0 | |
| **7.5** | 10 | 18 | 14 | 17 | FSB | 6SL32 ■ 0- ■ YE24- ■ U ■ 0 | 6SL32 ■ 0- ■ YE24- ■ A ■ 0 | |
| **11** | 15 | 26 | 21 | 24.5 | FSC | 6SL32 ■ 0- ■ YE26- ■ U ■ 0 | 6SL32 ■ 0- ■ YE26- ■ A ■ 0 | |
| **15** | 20 | 32 | 27 | 29.5 | FSC | 6SL32 ■ 0- ■ YE28- ■ U ■ 0 | 6SL32 ■ 0- ■ YE28- ■ A ■ 0 | |
| **18.5** | 25 | 38 | 34 | 37 | FSD | 6SL32 ■ 0- ■ YE30- ■ U ■ 0 | 6SL32 ■ 0- ■ YE30- ■ A ■ 0 | |
| **22** | 30 | 45 | 40 | 44 | FSD | 6SL32 ■ 0- ■ YE32- ■ U ■ 0 | 6SL32 ■ 0- ■ YE32- ■ A ■ 0 | |
| **30** | 40 | 60 | 52 | 59 | FSD | 6SL32 ■ 0- ■ YE34- ■ U ■ 0 | 6SL32 ■ 0- ■ YE34- ■ A ■ 0 | |
| **37** | 50 | 75 | 65 | 72 | FSD | 6SL32 ■ 0- ■ YE36- ■ U ■ 0 | 6SL32 ■ 0- ■ YE36- ■ A ■ 0 | |
| **45** | 60 | 90 | 77 | 89 | FSE | 6SL32 ■ 0- ■ YE38- ■ U ■ 0 | 6SL32 ■ 0- ■ YE38- ■ A ■ 0 | |
| **55** | 75 | 110 | 96 | 107 | FSE | 6SL32 ■ 0- ■ YE40- ■ U ■ 0 | 6SL32 ■ 0- ■ YE40- ■ A ■ 0 | |
| **75** | 100 | 145 | 124 | 144 | FSF | 6SL32 ■ 0- ■ YE42- ■ U ■ 0 | 6SL32 ■ 0- ■ YE42- ■ A ■ 0 | |
| **90** | 125 | 178 | 156 | 177 | FSF | 6SL32 ■ 0- ■ YE44- ■ U ■ 0 | 6SL32 ■ 0- ■ YE44- ■ A ■ 0 | |
| **110** | 150 | 205 | 180 | 203 | FSF | 6SL32 ■ 0- ■ YE46- ■ U ■ 0 | 6SL32 ■ 0- ■ YE46- ■ A ■ 0 | |
| **132** | 200 | 250 | 240 | 247 | FSF | 6SL32 ■ 0- ■ YE48- ■ U ■ 0 | 6SL32 ■ 0- ■ YE48- ■ A ■ 0 | |
| **160** | 250 | 302 | 302 | 308 | FSG | – | 6SL32 ■ 0- ■ YE50- ■ ■ ■ 0 | |
| **200** | 300 | 370 | 361 | 374 | FSG | – | 6SL32 ■ 0- ■ YE52- ■ ■ ■ 0 | |
| **250** | 400 | 477 | 477 | 482 | FSG | – | 6SL32 ■ 0- ■ YE54- ■ ■ ■ 0 | |
| **315** | 400 | 570 | 477 | 597 | FSH | – | 6SL32 2 0- ■ YE56- 0 C F 0 | 6SL3760-0MR00-0AA0 |
| **355** | 450 | 640 | 515 | 668 | FSH | – | 6SL32 2 0- ■ YE58- 0 C F 0 | |
| **400** | 500 | 720 | 590 | 750 | FSH | – | 6SL32 2 0- ■ YE60- 0 C F 0 | |
| **450** | 500 | 820 | 663 | 870 | FSJ | – | 6SL32 2 0- ■ YE62- 0 C F 0 | |
| **500** | 600 | 890 | 724 | 945 | FSJ | – | 6SL32 2 0- ■ YE64- 0 C F 0 | |
| **560** | 700 | 1000 | 830 | 1061 | FSJ | – | 6SL32 2 0- ■ YE66- 0 C F 0 | |

***Article No. supplements***

| | | | | | | | |

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| **Line-side components** (continued) | | | | | | **Load-side power components** | | |
|---|---|---|---|---|---|---|---|---|
| **Line filters** (continued) Category C1 | **Line reactors** For frame sizes FSH and FSJ mandatory when using an external line filter Category C2 | **Recommended line-side overcurrent protection devices** Fuses IEC-compliant | | Fuses UL/cUL-compliant Rated voltage 600 V AC [4] | | **Output reactors** | **Sine-wave filters** | **dv/dt filters plus VPL** |
| | | Current | | Fuse type Class/ | Current | | | |
| Article No. | Article No. | A | Article No. | Article No. | A | Article No. | Article No. | Article No. |
| Available soon | A DC link reactor is integrated for frame sizes FSA to FSG – therefore no line reactor is required. | 10 | **3NA3803** | J | 10 | A DC link reactor is integrated for frame sizes FSA to FSC – therefore long cable lengths are possible without output reactors. | Available soon | – |
| | | 16 | **3NA3805** | J | 15 | | | – |
| | | 16 | **3NA3805** | J | 15 | | | – |
| | | 16 | **3NA3805** | J | 15 | | | – |
| | | 16 | **3NA3805** | J | 15 | | | – |
| | | 32 | **3NA3812** | J | 35 | | | – |
| | | 32 | **3NA3812** | J | 35 | | | – |
| | | 32 | **3NA3812** | J | 35 | | | – |
| | | 50 | **3NA3820** | J | 50 | | | – |
| | | 50 | **3NA3820** | J | 50 | | | – |
| | | 63 | **3NA3822** | J | 60 | Available soon | | Available soon |
| | | 80 | **3NA3824** | J | 70 | | | |
| | | 100 | **3NA3830** | J | 90 | | | |
| | | 100 | **3NA3830** | J | 100 | | | |
| | | 125 | **3NA3832** | J | 125 | | | |
| | | 160 | **3NA3836** | J | 150 | | | |
| | | 200 | **3NA3140** | J | 200 | | | |
| | | 224 | **3NA3142** | J | 250 | | | |
| | | 300 | **3NA3250** | J | 300 | | | |
| – | | 315 | **3NA3252** | J | 350 | | | |
| – | | 355 | **3NA3254** | J | 400 | | | |
| – | | 400 | **3NA3260** | J | 500 | | | |
| – | | 630 | **3NA3372** | J | 600 | | | |
| – | **6SL3000-0CE36-3AA0** | 710 | **3NE1437-2** | | 710 | **6SL3000-2AE36-1AA0** | – | **6SL3000-2DE38-4AA0** |
| – | **6SL3000-0CE37-7AA0** | 800 | **3NE1438-2** | | 800 | **6SL3000-2AE38-4AA0** | – | |
| – | | 850 | **3NE1448-2** | | 850 | | – | |
| – | **6SL3000-0CE38-7AA0** | 1000 | **3NB3350-1KK26** | | 1000 | **6SL3000-2AE41-0AA0** | – | **6SL3000-2DE41-4AA0** |
| – | **6SL3000-0CE41-0AA0** | 1100 | **3NB3351-1KK26** | | 1100 | | – | |
| – | | 1250 | **3NB3352-1KK26** | | 1250 | **6SL3000-2AE41-4AA0** | – | |

## *Ordering examples*

| Basic selection | Example 1 | Example 2 |
|---|---|---|
| **SINAMICS G120X converters · degree of protection IP20/UL Open Type · 380 ... 480 V 3 AC, 15 kW · with integrated line filter – converters up to 132 kW delivery ex stock** | **6SL32 ■ 0- ■ YE28- ■ A ■ 0** | **6SL32 ■ 0- ■ YE28- ■ A ■ 0** |
| ***Article No. supplements*** | | |
| **Environmental class/harmful chemical substances** acc. to EN 60721-3-3 | | |
| Class 3C2 – **delivery ex stock** | **2** | |
| Class 3C3 * (available soon) | | **3** |
| **Operator Panel** | | |
| Without Operator Panel * | | |
| With BOP-2 Basic Operator Panel (numeric 2-line display) * | | **2** |
| With IOP-2 Intelligent Operator Panel (graphic color display) – **delivery ex stock** | **3** | |
| **Extension with SINAMICS G120X I/O Extension Module** (available soon) | | |
| Without extension – **delivery ex stock** | **0** | **0** |
| **Line filter** | | |
| Without integrated line filter – **delivery ex stock** | | |
| With integrated line filter Category C2 – **delivery ex stock** | **A** | **A** |
| With integrated line filter Category C3 * | | |
| **Communication** (variants for PROFIBUS DP or USS, Modbus RTU, BACnet MS/TP available soon) | | |
| PROFINET, EtherNet/IP – **delivery ex stock** | **F** | **F** |
| **Complete Article No.** | **6SL32 2 0- 3 YE28- 0 A F 0** | **6SL32 3 0- 2 YE28- 0 A F 0** |
| | **Delivery ex stock** | **Standard delivery time** |

* If you select one of these supplements, the delivery time for converters up to 132 kW will change from "**delivery ex stock**" to "**standard delivery time**".

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## Selection and ordering data (continued)

### *SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater · Degree of protection IP20/UL Open Type · 500 ... 690 V 3 AC*

| SINAMICS G120X | | | | | | | | Line-side components |
|---|---|---|---|---|---|---|---|---|
| Rated power [1] | | Base-load current $I_L$ [2] | | Rated input current [3] | Frame size | SINAMICS G120X Degree of protection IP20/UL Open Type without integrated line filter | SINAMICS G120X Degree of protection IP20/UL Open Type with integrated line filter | Line filters Category C2 |
| 690 V kW | 600 V hp | 690 V A | 600 V A | 690 V A | | Article No. | Article No. | Article No. |
| **500 ... 690 V 3 AC · Rated pulse frequency 2 kHz · Input frequency 47 ... 63 Hz** | | | | | | | | |
| **3** | 4 | 5 | 5 | 6 | FSD | 6SL32 ■ 0- ■ YH18- ■ U ■ 0 | 6SL32 ■ 0- ■ YH18- ■ A ■ 0 | SINAMICS G120X available with integrated line filter Category C2 |
| **4** | 5 | 6.3 | 6.3 | 7 | FSD | 6SL32 ■ 0- ■ YH20- ■ U ■ 0 | 6SL32 ■ 0- ■ YH20- ■ A ■ 0 | |
| **5.5** | 7.5 | 9 | 9 | 10 | FSD | 6SL32 ■ 0- ■ YH22- ■ U ■ 0 | 6SL32 ■ 0- ■ YH22- ■ A ■ 0 | |
| **7.5** | 10 | 11 | 11 | 12 | FSD | 6SL32 ■ 0- ■ YH24- ■ U ■ 0 | 6SL32 ■ 0- ■ YH24- ■ A ■ 0 | |
| **11** | 10 | 14 | 14 | 15 | FSD | 6SL32 ■ 0- ■ YH26- ■ U ■ 0 | 6SL32 ■ 0- ■ YH26- ■ A ■ 0 | |
| **15** | 15 | 19 | 19 | 19 | FSD | 6SL32 ■ 0- ■ YH28- ■ U ■ 0 | 6SL32 ■ 0- ■ YH28- ■ A ■ 0 | |
| **18.5** | 20 | 23 | 23 | 23 | FSD | 6SL32 ■ 0- ■ YH30- ■ U ■ 0 | 6SL32 ■ 0- ■ YH30- ■ A ■ 0 | |
| **22** | 25 | 27 | 27 | 26 | FSD | 6SL32 ■ 0- ■ YH32- ■ U ■ 0 | 6SL32 ■ 0- ■ YH32- ■ A ■ 0 | |
| **30** | 30 | 35 | 35 | 34 | FSD | 6SL32 ■ 0- ■ YH34- ■ U ■ 0 | 6SL32 ■ 0- ■ YH34- ■ A ■ 0 | |
| **37** | 40 | 42 | 42 | 41 | FSD | 6SL32 ■ 0- ■ YH36- ■ U ■ 0 | 6SL32 ■ 0- ■ YH36- ■ A ■ 0 | |
| **45** | 50 | 52 | 52 | 52 | FSE | 6SL32 ■ 0- ■ YH38- ■ U ■ 0 | 6SL32 ■ 0- ■ YH38- ■ A ■ 0 | |
| **55** | 60 | 62 | 62 | 60 | FSE | 6SL32 ■ 0- ■ YH40- ■ U ■ 0 | 6SL32 ■ 0- ■ YH40- ■ A ■ 0 | |
| **75** | 75 | 80 | 80 | 80 | FSF | 6SL32 ■ 0- ■ YH42- ■ U ■ 0 | 6SL32 ■ 0- ■ YH42- ■ C ■ 0 | – |
| **90** | 100 | 100 | 100 | 99 | FSF | 6SL32 ■ 0- ■ YH44- ■ U ■ 0 | 6SL32 ■ 0- ■ YH44- ■ C ■ 0 | – |
| **110** | 125 | 125 | 125 | 124 | FSF | 6SL32 ■ 0- ■ YH46- ■ U ■ 0 | 6SL32 ■ 0- ■ YH46- ■ C ■ 0 | – |
| **132** | 150 | 144 | 144 | 141 | FSF | 6SL32 ■ 0- ■ YH48- ■ U ■ 0 | 6SL32 ■ 0- ■ YH48- ■ C ■ 0 | – |
| **160** | 150 | 171 | 171 | 175 | FSG [4] | – | 6SL32 ■ 0- ■ YH50- ■ C ■ 0 | – |
| **200** | 200 | 208 | 208 | 210 | FSG [4] | – | 6SL32 ■ 0- ■ YH52- ■ C ■ 0 | – |
| **250** | 250 | 250 | 250 | 255 | FSG [4] | – | 6SL32 ■ 0- ■ YH54- ■ C ■ 0 | – |
| **315** | 350 | 330 | 345 | 383 | FSH | – | 6SL32 2 0- ■ YH56- 0 C F 0 | 6SL3760-0MS00-0AA0 |
| **355** | 400 | 385 | 388 | 416 | FSH | – | 6SL32 2 0- ■ YH58- 0 C F 0 | |
| **400** | 450 | 420 | 432 | 471 | FSH | – | 6SL32 2 0- ■ YH60- 0 C F 0 | |
| **450** | 500 | 470 | 487 | 537 | FSH | – | 6SL32 2 0- ■ YH62- 0 C F 0 | |
| **500** | 500 | 520 | 546 | 596 | FSJ | – | 6SL32 2 0- ■ YH64- 0 C F 0 | |
| **560** | 600 | 580 | 610 | 679 | FSJ | – | 6SL32 2 0- ■ YH66- 0 C F 0 | |
| **630** | 700 | 650 | 679 | 753 | FSJ | – | 6SL32 2 0- ■ YH68- 0 C F 0 | |

***Article No. supplements***

| | |
|---|---|
| **Environmental class/harmful chemical substances** acc. to EN 60721-3-3 | |
| Class 3C2 | 2 |
| Class 3C3 (available soon) | 3 |
| **Operator Panel** | |
| Without Operator Panel | 1 |
| With BOP-2 Basic Operator Panel (numeric 2-line display) | 2 |
| With IOP-2 Intelligent Operator Panel (graphic color display) | 3 |
| **Extension with SINAMICS G120X I/O Extension Module** (available soon) | |
| Without extension | 0 |
| **Line filter** | |
| Without integrated line filter | U |
| With integrated line filter Category C2 | A |
| With integrated line filter Category C3 | C |
| **Communication** (variants for PROFIBUS DP or USS, Modbus RTU, BACnet MS/TP available soon) | |
| PROFINET, EtherNet/IP | F |

[1] Rated power based on the base-load current $I_L$. The base-load current $I_L$ is based on the duty cycle for low overload (LO).

[2] The base-load current $I_L$ is based on the duty cycle for low overload (LO). These current values are valid for 690 V or 600 V and are specified on the rating plate of the converter.

[3] The input current depends on the motor load and line impedance. The input currents apply for a load at rated power (based on $I_L$) for a line impedance corresponding to $u_K$ = 1 %. The current values are specified on the rating plate of the converter.

[4] The 690 V versions of frame size FSG are only available with an integrated line filter Category C3. To operate the converters also within TN systems with grounded outer conductor, you must remove the grounding screw.

[5] The Short Circuit Current Rating (SCCR) according to UL for industrial control panel installations to NEC Article 409 or UL 508A/508C or UL 61800-5-1 is 100 kA for SINAMICS G120X.

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| **Line-side components** (continued) | | | | | | **Load-side power components** | | |
|---|---|---|---|---|---|---|---|---|
| **Line filters** (continued) Category C1 | **Line reactors** For frame sizes FSH and FSJ mandatory when using an external line filter Category C2 | **Recommended line-side overcurrent protection devices** Fuses IEC-compliant | | Fuses UL/cUL-compliant Rated voltage 600 V AC [5] | | **Output reactors** | **Sine-wave filters** | **dv/dt filters plus VPL** |
| | | Current | | Fuse type Class/ | Current | | | |
| Article No. | Article No. | A | Article No. | Article No. | A | Article No. | Article No. | Article No. |
| – | A DC link reactor is integrated for frame sizes FSA to FSG – therefore no line reactor is required. | 20 | **3NA3807-6** | J | 20 | Available soon | – | Available soon |
| – | | 20 | **3NA3807-6** | J | 20 | | – | |
| – | | 20 | **3NA3807-6** | J | 20 | | – | |
| – | | 20 | **3NA3807-6** | J | 20 | | – | |
| – | | 20 | **3NA3807-6** | J | 20 | | – | |
| – | | 25 | **3NA3810-6** | J | 25 | | – | |
| – | | 32 | **3NA3812-6** | J | 30 | | – | |
| – | | 40 | **3NA3817-6KJ** | J | 35 | | – | |
| – | | 50 | **3NA3820-6KJ** | J | 50 | | – | |
| – | | 63 | **3NA3822-6** | J | 60 | | – | |
| – | | 80 | **3NA3824-6** | J | 80 | | – | |
| – | | 80 | **3NA3824-6** | J | 80 | | – | |
| – | | 100 | **3NA3830-6** | J | 110 | | – | |
| – | | 125 | **3NA3132-6** | J | 150 | | – | |
| – | | 160 | **3NA3136-6** | J | 150 | | – | |
| – | | 200 | **3NA3140-6** | J | 200 | | – | |
| – | | 250 | **3NE1227-0** | | 250 | | – | |
| – | | 315 | **3NE1230-0** | | 315 | | – | |
| – | | 355 | **3NE1331-0** | | 355 | | – | |
| – | **6SL3000-0CH34-8AA0** | 450 | **3NE1333-2** | | 450 | **6SL3000-2AH34-7AA0** | – | **6SL3000-2DH35-8AA0** |
| – | | 500 | **3NE1334-2** | | 500 | | – | |
| – | | 560 | **3NE1435-2** | | 560 | **6SL3000-2AH35-8AA0** | – | |
| – | **6SL3000-0CH36-0AA0** | 630 | **3NE1436-2** | | 630 | **6SL3000-2AH38-1AA0** | – | **6SL3000-2DH38-1AA0** |
| – | | 710 | **3NE1437-2** | | 710 | | – | |
| – | **6SL3000-0CH38-4AA0** | 800 | **3NE1438-2** | | 800 | | – | |
| – | | 850 | **3NE1448-2** | | 850 | | – | |

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## Selection and ordering data (continued)

### *Supplementary system components for SINAMICS G120X*

| Description | Article No. |
|---|---|
| **IOP-2 Intelligent Operator Panel**<br>Operating languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Russian, Czech, Polish, Turkish, Chinese Simplified | **6SL3255-0AA00-4JA2** |
| **IOP-2 Handheld** | **6SL3255-0AA00-4HA1** |
| **BOP-2 Basic Operator Panel** | **6SL3255-0AA00-4CA1** |
| **Door mounting kit**<br>for IOP-2/BOP-2 | **6SL3256-0AP00-0JA0** |
| **SINAMICS SD card**<br>512 MB, empty | **6SL3054-4AG00-2AA0** |
| **SINAMICS G120 Smart Access**<br>for wireless commissioning, operation and diagnostics of the following converters using a smartphone, tablet or laptop | **6SL3255-0AA00-5AA0** |
| **SINAMICS G120X I/O Extension Module**<br>(available soon) | **6SL3255-0BE00-0AA0** |
| **Shield connection kits for Power Module**<br>for SINAMICS G120X | |
| • Frame sizes FSA to FSG | Included in the scope of delivery of the converters, can be ordered as spare part |
| • Frame sizes FSH to FSJ | Please observe the notes included in the operating instructions |
| **Push-through mounting frames**<br>(available soon)<br>for SINAMICS G120X<br>degree of protection IP20/UL Open Type | |
| • Frame size FSA | **6SL3261-6GA00-0BA0** |
| • Frame size FSB | **6SL3261-6GB00-0BA0** |
| • Frame size FSC | **6SL3261-6GC00-0BA0** |
| • Frame size FSD | **6SL3261-6GD00-0BA0** |
| • Frame size FSE | **6SL3261-6GE00-0BA0** |
| • Frame size FSF | **6SL3261-6GF00-0BA0** |
| • Frame size FSG | **6SL3261-6GG00-0BA0** |
| **Installation handles**<br>(available soon)<br>for SINAMICS G120X | |
| • Frame sizes FSD to FSF | **6SL3200-0SM22-0AA0** |
| **IP21 top covers**<br>(available soon)<br>for SINAMICS G120X<br>degree of protection IP20/UL Open Type | |
| • Frame size FSA | **6SL3266-1PA00-0BA0** |
| • Frame size FSB | **6SL3266-1PB00-0BA0** |
| • Frame sizes FSC and FSD | **6SL3266-1PD00-0BA0** |
| • Frame size FSE | **6SL3266-1PE00-0BA0** |
| • Frame sizes FSF and FSG | **6SL3266-1PF00-0BA0** |
| **Installation kit for line-side cable connection, left**<br>(available soon)<br>for SINAMICS G120X | |
| • Frame size FSH | **6SL3366-1LH00-0PA0** |
| **SINAMICS G120X Starter Kit**<br>(available soon)<br>• Converter 380 ... 480 V 3 AC, PROFINET, FSA, 0.75 kW<br>• IOP-2<br>• SINAMICS G120 Smart Access | **6SL3200-0AE70-0AA0** |
| **SINAMICS G120X training case**<br>(available soon) | **6AG1067-2AA00-0AC1** |

### *Spare parts for SINAMICS G120X*

| Description | Article No. |
|---|---|
| **FPI board**<br>**(freely-programmable interface board)**<br>(available soon)<br>for SINAMICS G120X | |
| • Frame sizes FSH and FSJ | Available soon |
| **PSB board (power supply board)**<br>(available soon)<br>for SINAMICS G120X | |
| • Frame sizes FSH and FSJ | Available soon |
| **Current transformers**<br>(available soon)<br>for SINAMICS G120X | |
| • 2000 A for frame sizes FSH and FSJ | **6SL3200-0SE01-0AA0** |
| • 1000 A for frame size FSJ | **6SL3200-0SE02-0AA0** |
| **Spare parts kit for Control Unit**<br>(available soon)<br>for SINAMICS G120X | |
| • Frame sizes FSA to FSJ | **6SL3200-0SK10-0AA0** |
| **Shield connection kit for Control Unit**<br>(available soon)<br>for SINAMICS G120X | |
| • Frame sizes FSD to FSG | **6SL3264-1EA00-0YA0** |
| **Shield connection kits for Power Module**<br>for SINAMICS G120X<br>degree of protection IP20/UL Open Type | |
| • Frame size FSA (available soon) | **6SL3262-1AA01-0DA0** |
| • Frame size FSB (available soon) | **6SL3262-1AB01-0DA0** |
| • Frame size FSC (available soon) | **6SL3262-1AC01-0DA0** |
| • Frame size FSD | **6SL3262-1AD01-0DA0** |
| • Frame size FSE | **6SL3262-1AE01-0DA0** |
| • Frame size FSF | **6SL3262-1AF01-0DA0** |
| • Frame size FSG | **6SL3262-1AG01-0DA0** |
| **Mounting set**<br>for SINAMICS G120X | |
| • Frame sizes FSD to FSG | **6SL3200-0SK08-0AA0** |
| **Terminal cover kits**<br>for SINAMICS G120X | |
| • Frame size FSD | **6SL3200-0SM13-0AA0** |
| • Frame size FSE | **6SL3200-0SM14-0AA0** |
| • Frame size FSF | **6SL3200-0SM15-0AA0** |
| • Frame size FSG | **6SL3200-0SM16-0AA0** |
| **External fan units**<br>for SINAMICS G120X<br>degree of protection IP20/UL Open Type | |
| • Frame size FSA (available soon) | **6SL3200-0SF52-0AA0** |
| • Frame size FSB (available soon) | **6SL3200-0SF53-0AA0** |
| • Frame size FSC (available soon) | **6SL3200-0SF54-0AA0** |
| • Frame size FSD | **6SL3200-0SF15-0AA0** |
| • Frame size FSE | **6SL3200-0SF16-0AA0** |
| • Frame size FSF | **6SL3200-0SF17-0AA0** |
| • Frame size FSG | **6SL3200-0SF18-0AA0** |
| • Frame sizes FSH and FSJ | **6SL3300-0SF01-0AA0** |
| **Internal fan unit**<br>(available soon)<br>for SINAMICS G120X<br>degree of protection IP20/UL Open Type | |
| • Frame sizes FSH and FSJ | **6SL3200-0SF50-0AA0** |

**Compact Installation Instructions** are supplied in hard copy form in German and English with every SINAMICS G120X.

Further technical specifications and documentation are available on the Internet at: www.siemens.com/sinamics-g120x/documentation and via the Drive Technology Configurator (DT Configurator) in the Siemens Industry Mall: www.siemens.com/dt-configurator

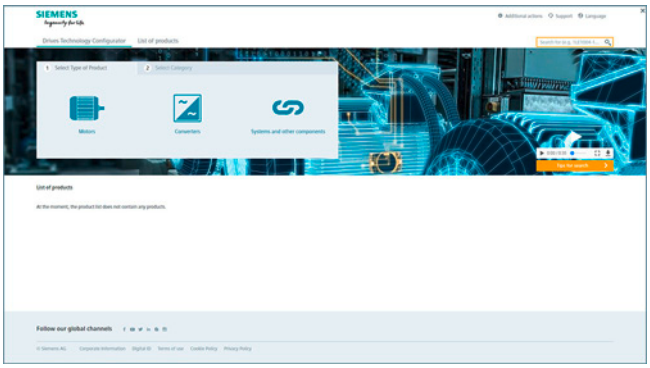
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## Overview

The Drive Technology Configurator (DT Configurator) helps you to configure the optimum drive technology products for your application – starting with gear units, motors, converters as well as the associated options and components and ending with controllers, software licenses and connection systems. Whether with little or detailed knowledge of products: preselected product groups, deliberate navigation through selection menus and direct product selection through entry of the article number support quick, efficient and convenient configuration.

In addition, comprehensive documentation comprising technical data sheets, 2D dimensional drawings/3D CAD models, operating instructions, certificates, etc. can be selected in the DT Configurator. Immediate ordering is possible by simply transferring a parts list to the shopping cart of the Industry Mall.




***Drive Technology Configurator for efficient drive configuration with the following functions***

- Quick and easy configuration of drive products and associated components – gear units, motors, converters, controllers, connection systems
- Configuration of drive systems for pumps, fans and compressor applications from 1 kW to 2.6 MW
- Retrievable documentation for configured products and components, such as
  - Data sheets in up to 9 languages in PDF or RTF format
  - 2D dimensional drawings/3D CAD models in various formats
  - Terminal box drawing and terminal connection diagram
  - Operating instructions
  - Certificates
  - Start-up calculation for SIMOTICS motors
  - EPLAN macros
- Support with retrofitting in conjunction with Spares On Web (www.siemens.com/sow)
- Ability to order products directly through the Siemens Industry Mall

Access to the Drive Technology Configurator

The Drive Technology Configurator can be called up without registration and without a login:
www.siemens.com/dt-configurator

## Selection and ordering data

| Description | Article No. |
|---|---|
| **Interactive Catalog CA 01**<br>including Drive Technology Configurator | |
| • German (DVD-ROM – Edition Germany) | **E86060-D4001-A500-D9** |
| • German, English, French, Spanish (Download – without prices) | **E86060-D4001-A510-D8-7500** |

## More information

Online access to the Drive Technology Configurator

More information about the Drive Technology Configurator is available on the Internet at
www.siemens.com/dtconfigurator

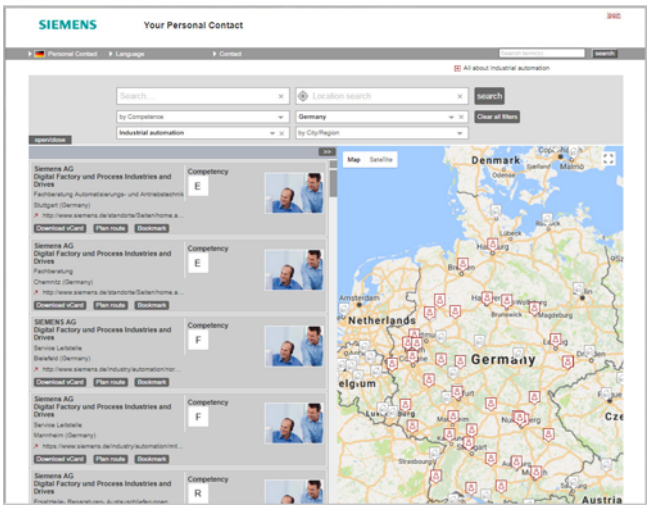
Offline access to the Drive Technology Configurator in the Interactive Catalog CA 01

In addition, the Drive Technology Configurator is also included in the Interactive Catalog CA 01 – the offline version of the Siemens Industry Mall.
The Interactive Catalog CA 01 can be ordered from the relevant Siemens sales office or via the Internet:
www.siemens.com/automation/CA01

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### *Partner at Siemens*




At your service locally, around the globe for consulting, sales, training, service, support, spare parts on the entire portfolio of Digital Factory and Process Industries and Drives.

Your partner can be found in our Personal Contacts Database at:
www.siemens.com/automation-contact

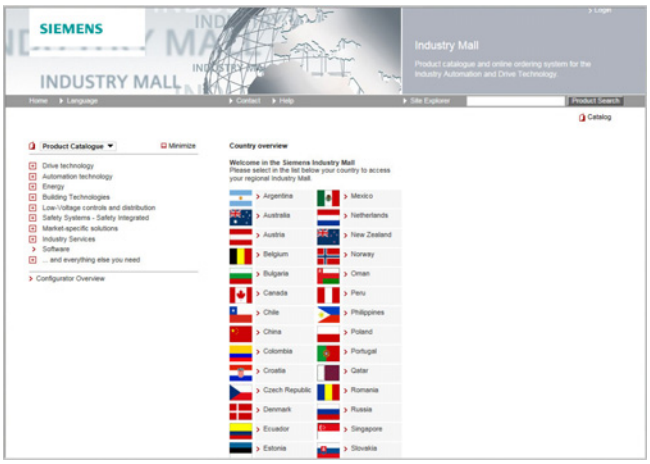
You start by selecting

- the required competence,
- products and branches,
- a country and a city

or by a

- location search or free text search.

### *Easy product selection and ordering in the Industry Mall and with the Interactive Catalog CA 01*




Industry Mall

The Industry Mall is a Siemens Internet ordering platform. Here you have a clear and informative online access to a huge range of products.

Powerful search functions make it easy to select the required products. Configurators enable you to configure complex product and system components quickly and easily. CAx data types are also provided here.

Data transfer allows the whole procedure, from selection through ordering to tracking and tracing, to be carried out online. Availability checks, customer-specific discounts and bid creation are also possible.

www.siemens.com/industrymall




Interactive Catalog CA 01 - Products for Automation and Drives

The Interactive Catalog CA 01 combined with the Siemens Industry Mall unites the benefits of offline and online media in one application – the performance of an offline catalog with the availability of manifold and up-to-date information on the Internet.

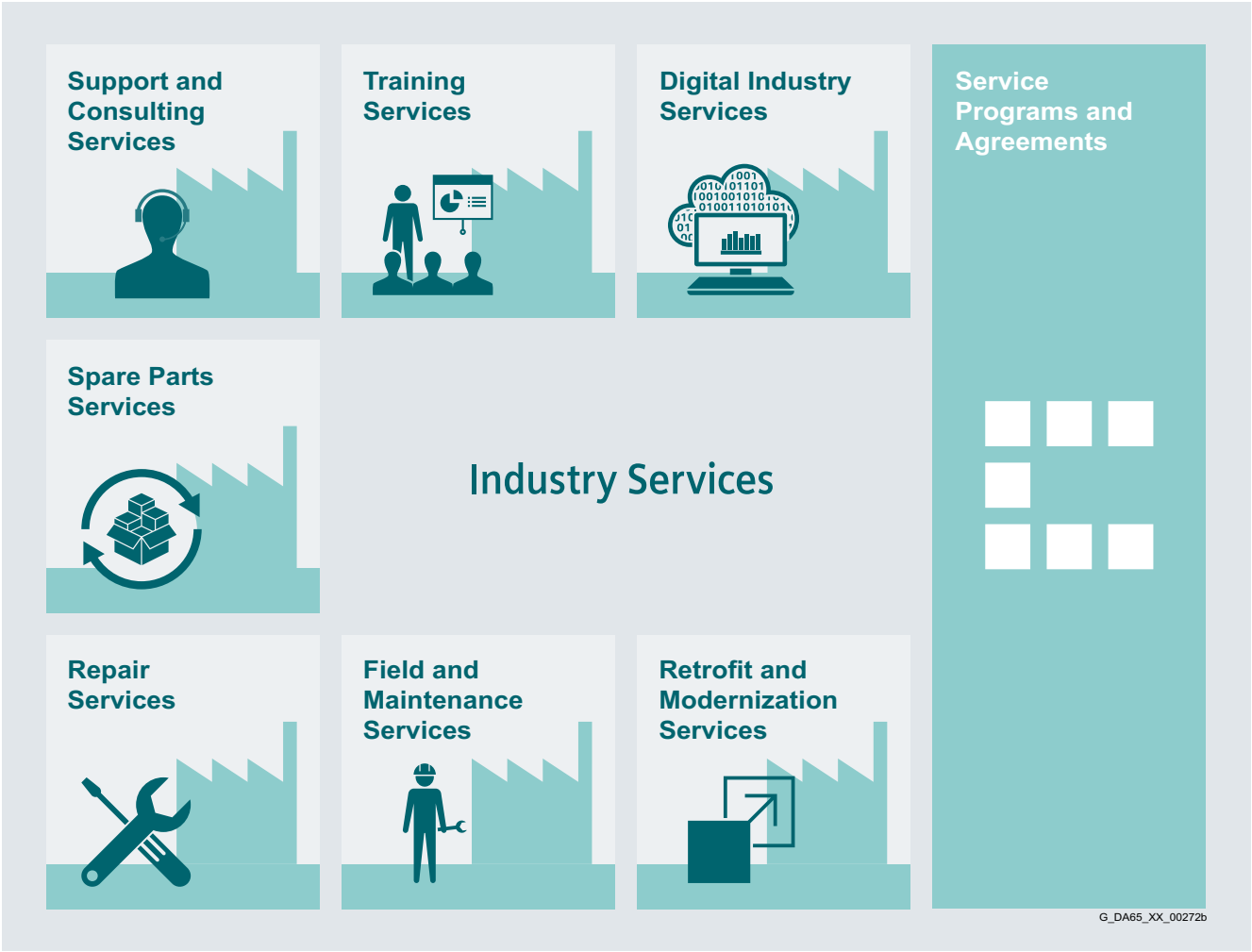
Select products and assemble orders with the CA 01, determine the availability of the selected products and track & trace via the Industry Mall.

More information and download:
www.siemens.com/automation/ca01

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## Overview




***Keep your business running and shaping your digital future – with Industry Services***

Optimizing the productivity of your equipment and operations can be a challenge, especially with constantly changing market conditions. Working with our service experts makes it easier. We understand your industry's unique processes and provide the services needed so that you can better achieve your business goals.

You can count on us to maximize your uptime and minimize your downtime, increasing your operations' productivity and reliability. When your operations have to be changed quickly to meet a new demand or business opportunity, our services give you the flexibility to adapt. Of course, we take care that your production is protected against cyber threats. We assist in keeping your operations as energy and resource efficient as possible and reducing your total cost of ownership. As a trendsetter, we ensure that you can capitalize on the opportunities of digitalization and by applying data analytics to enhance decision making: You can be sure that your plant reaches its full potential and retains this over the longer lifespan.

You can rely on our highly dedicated team of engineers, technicians and specialists to deliver the services you need – safely, professionally and in compliance with all regulations. We are there for you, where you need us, when you need us.

www.siemens.com/industryservices

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## Industry Services – Portfolio overview

### Overview




#### *Digital Industry Services*

Digital Industry Services make your industrial processes transparent to gain improvements in productivity, asset availability, and energy efficiency.

Production data is generated, filtered and translated with intelligent analytics to enhance decision-making.

This is done whilst taking data security into consideration and with continuous protection against cyber-attack threats.
https://www.siemens.com/global/en/home/products/services/industry/digital-services.html




#### *Training Services*

From the basics and advanced to specialist skills, SITRAIN courses provide expertise right from the manufacturer – and encompass the entire spectrum of Siemens products and systems for the industry.

Worldwide, SITRAIN courses are available wherever you need a training course in more than 170 locations in over 60 countries.
https://support.industry.siemens.com/cs/ww/en/sc/2226




#### *Support and Consulting Services*

**Industry Online Support** site for comprehensive information, application examples, FAQs and support requests.

**Technical and Engineering Support** for advice and answers for all inquiries about functionality, handling, and fault clearance. The Service Card as prepaid support for value added services such as Priority Call Back or Extended Support offers the clear advantage of quick and easy purchasing.

**Information & Consulting Services**, e.g. SIMATIC System Audit; clarity about the state and service capability of your automation system or Lifecycle Information Services; transparency on the lifecycle of the products in your plants.
https://support.industry.siemens.com/cs/ww/en/sc/2235




#### *Spare Parts*

Spare Parts Services are available worldwide for smooth and fast supply of spare parts – and thus optimal plant availability. Genuine spare parts are available for up to ten years. Logistic experts take care of procurement, transport, custom clearance, storage and order management. Reliable logistics processes ensure that components reach their destination as needed.

Since not all spare parts can be kept in stock at all times, Siemens offers a preventive measure for spare parts provisioning on the customer's premises with optimized **Spare Parts Packages** for individual products, custom-assembled drive components and entire integrated drive trains – including risk consulting.

**Asset Optimization Services** help you design a strategy for parts supply where your investment and carrying costs are reduced and the risk of obsolescence is avoided.
https://support.industry.siemens.com/cs/ww/en/sc/2110




#### *Repair Services*

Repair Services are offered on-site and in regional repair centers for fast restoration of faulty devices' functionality.

Also available are extended repair services, which include additional diagnostic and repair measures, as well as emergency services.
https://support.industry.siemens.com/cs/ww/en/sc/2154




#### *Field and Maintenance Services*

Siemens specialists are available globally to provide expert field and maintenance services, including commissioning, functional testing, preventive maintenance and fault clearance.

All services can be included in customized service agreements with defined reaction times or fixed maintenance intervals.
https://support.industry.siemens.com/cs/ww/en/sc/2265




#### *Retrofit and Modernization Services*

Provide a cost-effective solution for the expansion of entire plants, optimization of systems or upgrading existing products to the latest technology and software, e.g. migration services for automation systems.

Service experts support projects from planning through commissioning and, if desired over the entire extended lifespan, e.g. Retrofit for Integrated Drive Systems for an extended lifetime of your machines and plants.
https://support.industry.siemens.com/cs/ww/en/sc/2286




#### *Service Programs and Agreements*

A technical Service Program or Agreement enables you to easily bundle a wide range of services into a single annual or multi-year agreement.

You pick the services you need to match your unique requirements or fill gaps in your organization's maintenance capabilities.

Programs and agreements can be customized as KPI-based and/or performance-based contracts.
https://support.industry.siemens.com/cs/ww/en/sc/2275

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## Overview




Siemens Industry and Online Support with some 1.7 million visitors per month is one of the most popular web services provided by Siemens. It is the central access point for comprehensive technical know-how about products, systems and services for automation and drives applications as well as for process industries.

In connection with the challenges and opportunities related to digitalization you can look forward to continued support with innovative offerings.

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## 1. General Provisions

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

### *1.1 For customers with a seat or registered office in Germany*

For customers with a seat or registered office in Germany, the following applies subordinate to the T&C:

- for installation work the "General Conditions for Erection Works – Germany"[1)] ("Allgemeine Montagebedingungen – Deutschland" (only available in German at the moment)) and/or
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customer in Germany"[1)] ("Allgemeine Geschäftsbedingungen für das Plant Analytics Services – für Kunden in Deutschland" (only available in German at the moment)) and/or
- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"[1)] and/or
- for other supplies and/or services the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)].
  In case such supplies and/or services should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)]. A notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

### *1.2 For customers with a seat or registered office outside Germany*

For customers with a seat or registered office outside Germany, the following applies subordinate to the T&C:

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"[1)] and/or
- for services the "International Terms & Conditions for Services"[1)] supplemented by "Software Licensing Conditions"[1)] and/or
- for other supplies of hard- and/or software the "International Terms & Conditions for Products"[1)] supplemented by "Software Licensing Conditions" [1)].

### *1.3 For customers with master or framework agreement*

To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

## 2. Prices

The prices are in € (Euro) ex point of delivery, exclusive of packaging.

The sales tax (value added tax) is not included in the prices. It shall be charged separately at the respective rate according to the applicable statutory legal regulations.

Prices are subject to change without prior notice. We will charget the prices valid at the time of delivery.

To compensate for variations in the price of raw materials (e.g. silver, copper, aluminum, lead, gold, dysprosium and neodym), surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials. A surcharge for the respective raw material is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The metal factor of a product indicates the basic official price (for those raw materials concerned) as of which the surcharges on the price of the product are applied, and with what method of calculation.

You will find a detailed explanation of the metal factor on the page headed "Metal surcharges" – see catalog D 31.5.

To calculate the surcharge (except in the cases of dysprosium and neodym), the official price from the day prior to that on which the order was received or the release order was effected is used.

## 3. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

[1)] The text of the Terms and Conditions of Siemens AG can be downloaded at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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### 4. Export regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

Our products are controlled by the U.S. Government (when labeled with "ECCN" unequal "N") and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

The export indications can be viewed in advance in the description of the respective goods on the Industry Mall, our online catalog system. Only the export labels "AL" and "ECCN" indicated on order confirmations, delivery notes and invoices are authoritative.

Products labeled with "AL" unequal "N" are subject to European / national export authorization. Products without label, with label "AL:N" / "ECCN:N", or label "AL:9X9999" / "ECCN: 9X9999" may require authorization from responsible authorities depending on the final end-use, or the destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you must comply with all applicable national and international (re-)export control regulations.

If required for the purpose of conducting export control checks, you (upon request by us) shall promptly provide us with all information pertaining to the particular end customer, final disposition and intended use of goods delivered by us respectively works and services provided by us, as well as to any export control restrictions existing in this relation.

The products listed in this catalog may be subject to European/German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities.

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## Get more information

SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater:
**www.siemens.com/sinamics-g120x**

Catalog D 31.5 (available soon):
**www.siemens.com/d31-5**

SIMOTICS electric motors:
**www.siemens.com/simotics**

Motion Control Systems and Solutions for production machine and machine tool equipment:
**www.siemens.com/motioncontrol**

Local partners worldwide:
**www.siemens.com/automation-contact**

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Produced in Germany

The information provided in this catalog 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. Availability and technical specifications are subject to change without notice.

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## Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit
**https://www.siemens.com/industrialsecurity**

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under
**https://www.siemens.com/industrialsecurity**

**Discover the advantages of Integrated Drive Systems at a glance**