

SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater

0.75 kW to 630 kW (1 hp to 700 hp)

Clicking to the Industry Mall

6SL3255-0AA00-5AA0

SINAMICS G120X infrastructure converters for HVAC/Water/Wastewater

Selection and ordering data

SINAMICS G120X converters · Degree of protection IP20/UL Open Type · 380 ... 480 V 3 AC → Configuration with line-side components (see right page)

| Rated power ¹⁾ | Rated output current ²⁾ | | Base-load current I_{LH} ³⁾ | | Rated input current ⁴⁾ | Frame size | SINAMICS G120X Degree of protection IP20/UL Open Type without integrated line filter Converters up to 132 kW delivery ex stock | SINAMICS G120X Degree of protection IP20/UL Open Type with integrated line filter Converters up to 132 kW delivery ex stock | |
|--|------------------------------------|-------|--|-------|-----------------------------------|------------|---|--|----------------------|
| | 400 V | 480 V | 400 V | 480 V | | | | | 400 V |
| kW | hp | A | A | A | A | | Article No. | Article No. | |
| 380 ... 480 V 3 AC · Rated pulse frequency 4 kHz ≤ 90 kW, 2 kHz for 110 kW to 250 kW and 4 kHz > 250 kW · Input frequency 47 ... 63 Hz | | | | | | | | | |
| 0.75 | 1 | 2.2 | 2.1 | 1.7 | 1.6 | 2.1 | FSA | 6SL32 0- YE10- U 0 | 6SL32 0- YE10- A 0 |
| 1.1 | 1.5 | 3.1 | 3 | 2.2 | 2.1 | 2.8 | FSA | 6SL32 0- YE12- U 0 | 6SL32 0- YE12- A 0 |
| 1.5 | 2 | 4.1 | 3.4 | 3.1 | 3 | 3.6 | FSA | 6SL32 0- YE14- U 0 | 6SL32 0- YE14- A 0 |
| 2.2 | 3 | 5.9 | 4.8 | 4.1 | 3.4 | 5.5 | FSA | 6SL32 0- YE16- U 0 | 6SL32 0- YE16- A 0 |
| 3 | 4 | 7.7 | 6.2 | 5.9 | 4.8 | 6.9 | FSA | 6SL32 0- YE18- U 0 | 6SL32 0- YE18- A 0 |
| 4 | 5 | 10.2 | 7.6 | 7.7 | 6.2 | 9.8 | FSB | 6SL32 0- YE20- U 0 | 6SL32 0- YE20- A 0 |
| 5.5 | 7.5 | 13.2 | 11 | 10.2 | 7.6 | 12 | FSB | 6SL32 0- YE22- U 0 | 6SL32 0- YE22- A 0 |
| 7.5 | 10 | 18 | 14 | 13.2 | 11 | 17 | FSB | 6SL32 0- YE24- U 0 | 6SL32 0- YE24- A 0 |
| 11 | 15 | 26 | 21 | 18 | 14 | 24.5 | FSC | 6SL32 0- YE26- U 0 | 6SL32 0- YE26- A 0 |
| 15 | 20 | 32 | 27 | 26 | 21 | 29.5 | FSC | 6SL32 0- YE28- U 0 | 6SL32 0- YE28- A 0 |
| 18.5 | 25 | 38 | 34 | 32 | 27 | 36 | FSD | 6SL32 0- YE30- U 0 | 6SL32 0- YE30- A 0 |
| 22 | 30 | 45 | 40 | 38 | 34 | 42 | FSD | 6SL32 0- YE32- U 0 | 6SL32 0- YE32- A 0 |
| 30 | 40 | 60 | 52 | 45 | 40 | 57 | FSD | 6SL32 0- YE34- U 0 | 6SL32 0- YE34- A 0 |
| 37 | 50 | 75 | 65 | 60 | 52 | 70 | FSD | 6SL32 0- YE36- U 0 | 6SL32 0- YE36- A 0 |
| 45 | 60 | 90 | 77 | 75 | 65 | 86 | FSE | 6SL32 0- YE38- U 0 | 6SL32 0- YE38- A 0 |
| 55 | 75 | 110 | 96 | 90 | 77 | 104 | FSE | 6SL32 0- YE40- U 0 | 6SL32 0- YE40- A 0 |
| 75 | 100 | 145 | 124 | 110 | 96 | 140 | FSF | 6SL32 0- YE42- U 0 | 6SL32 0- YE42- A 0 |
| 90 | 125 | 178 | 156 | 145 | 124 | 172 | FSF | 6SL32 0- YE44- U 0 | 6SL32 0- YE44- A 0 |
| 110 | 150 | 205 | 180 | 178 | 156 | 198 | FSF | 6SL32 0- YE46- U 0 | 6SL32 0- YE46- A 0 |
| 132 | 200 | 250 | 240 | 205 | 180 | 242 | FSF | 6SL32 0- YE48- U 0 | 6SL32 0- YE48- A 0 |
| 160 | 250 | 302 | 302 | 250 | 240 | 301 | FSG | - | 6SL32 0- YE50- A 0 |
| 200 | 300 | 370 | 361 | 302 | 302 | 365 | FSG | - | 6SL32 0- YE52- A 0 |
| 250 | 400 | 477 | 477 | 370 | 361 | 471 | FSG | - | 6SL32 0- YE54- A 0 |
| 315 | 400 | 570 | 477 | 468 | 390 | 585 | FSH | - | 6SL32 2 0- YE56- C 0 |
| 355 | 450 | 640 | 515 | 491 | 394 | 654 | FSH | - | 6SL32 2 0- YE58- C 0 |
| 400 | 500 | 720 | 590 | 551 | 452 | 735 | FSH | - | 6SL32 2 0- YE60- C 0 |
| 450 | 500 | 820 | 663 | 672 | 542 | 850 | FSJ | - | 6SL32 2 0- YE62- C 0 |
| 500 | 600 | 890 | 724 | 728 | 591 | 924 | FSJ | - | 6SL32 2 0- YE64- C 0 |
| 560 | 700 | 1000 | 830 | 786 | 652 | 1038 | FSJ | - | 6SL32 2 0- YE66- C 0 |

Article No. supplements

| Environmental class/harmful chemical substances acc. to IEC 60721-3-3: 2002 | 2 | 3 | 2 | 3 |
|---|---|---|---|---|
| Class 3C2 – delivery ex stock | 2 | | 2 | |
| Class 3C3 * | 3 | | 3 | |
| Operator Panel | | | | |
| Without Operator Panel * | | | 1 | |
| With BOP-2 Basic Operator Panel (numeric 2-line display) * | | 1 | 2 | |
| With IOP-2 Intelligent Operator Panel (graphic color display) – delivery ex stock | | 3 | 3 | |
| Extension with SINAMICS G120X I/O Extension Module | | | | |
| Without extension – delivery ex stock | | | 0 | |
| With SINAMICS G120X I/O Extension Module * | | 1 | 1 | |
| Line filter | | | | |
| Without integrated line filter – delivery ex stock | | | U | |
| With integrated line filter Category C2 – delivery ex stock | | | | A |
| With integrated line filter Category C3 * | | | | C |
| Communication | | | | |
| USS, Modbus RTU, BACnet MS/TP * | | | B | B |
| PROFINET, EtherNet/IP – delivery ex stock | | | F | F |
| PROFIBUS DP * | | | P | P |

* 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".

- 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 rated output current is based on the duty cycle for low overload (LO). These current values are valid for 400 V or 480 V.
- ³⁾ The base-load current I_{LH} is based on the duty cycle for high overload (HO). These current values are valid for 400 V or 480 V.
- ⁴⁾ 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.