



TECHNICAL DOCUMENTATION

SINAMICS G120E-2

Configured enclosed drive for industry

usa.siemens.com/sinamics-g120e

Overview of SINAMICS G120E-2

SINAMICS G120E-2 is a configurable enclosed drive for a broad range of stand-alone applications ranging from simple pumps and fans to sophisticated machines requiring closed-loop speed and position control with extended integrated safety functionality. This rugged drive is based upon SINAMICS G120 modular components that allow it to be configured to best meet the demands of the application, the environment and the power supply system.

The key to its versatility is the ability to combine one of a range of power circuit configurations with a control unit offering the required control functionality and bus communications interface. A comprehensive range of pre-designed standard options completes the package. Additionally, please consult the factory for any custom options that may be needed.

Depending upon power ratings, the drive enclosure is either a wall-mounted box or a free-standing enclosure. The most common standard options can be accommodated in the base enclosure. A few options including output filters and reduced voltage soft-start (RVSS) bypass require an add-on or separate options enclosure.

Attention to detail is evident in the design of the drive. For example, the enclosure ventilation fans are controlled via relay to run only when needed, i.e. when the drive is running. Not only does this save energy costs, but it also reduces noise levels in the electrical room.

SIEMENS

Accessories for SINAMICS G120E-2

The utilization of certain features of SINAMICS G120E-2 may require the purchase of loose accessories. These accessories include braking resistors for dynamic braking, an optional SD card to store or download parameter sets or licenses for firmware functions (refer to page 8).

UL listing

SINAMICS G120E-2 is an enclosed drive listed to UL508A.

Operator interface

The door-mounted Intelligent Operator Panel IOP-2 is a user-friendly and powerful operator panel. For many standard applications such as pumps and compressors (both variable and constant torque (positive displacement)), as well as fans and conveyors, interactive application wizards guide you when commissioning without reference to parameter number.

The commissioning of drives is also easy thanks to the plain text display. User-defined parameter lists allow the number of parameters displayed to be reduced. Help texts for parameters, faults and alarms can be obtained by pressing the INFO button.

Local manual control is done via buttons and the navigation wheel, and there is dedicated local / remote button. Process values can be displayed numerically in technological units. Up to two process values can be displayed graphically as bar graphs. The IOP-2 also allows graphical trending of values.



SINAMICS IOP-2
14 interface languages available

Motor and drive sizing

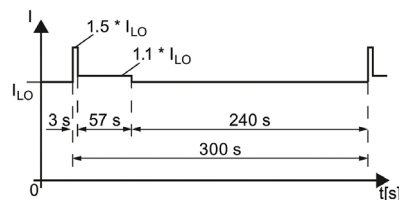
The Service Factor must be considered for motors operating at Service Factors beyond 1.0. Please consult factory for assistance sizing the drive.

For motors with ratings larger than the drive, please consult the factory as nuisance tripping may occur if the drive is not properly sized. In sensorless vector control, the rated motor current (FLA) must be at least 1/4 of the rated drive output current. With lower motor currents, operation is possible in Volts/Hz control mode only.

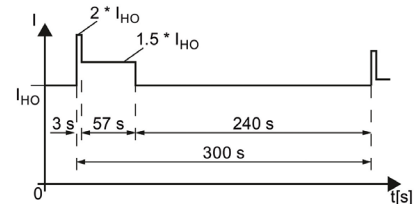
Overload ratings

The SINAMICS G120E-2 drive may be operated with both variable torque and constant torque loads at either light or high overload duties. The criteria for overload is that the drive is operated with its base load current before and after the overload occurs. Light overload duty is based upon 110% base load current for 60 sec or 150% for 3 sec, repeated every 300 sec.

High overload duty is based upon 150% base load current for 60 sec or 200% (<150 hp) or 160% (150 and 200 hp) for 3 sec, repeated every 300 sec.



300 s load cycle based upon
Low Overload



300 s load cycle based upon
High Overload

Power circuit configuration

Standard 6-pulse	
Application	Typical industrial
Harmonic performance	Depending upon supply impedance: THID approx. 25–50% (with 5% line reactor option THID approx. 20–30%)
Power supply system/ emergency power	Strong and weak supply systems, emergency power generators may require oversizing due to harmonics
Braking	Integrated braking chopper for dynamic braking (requires external braking resistor)
Summary	Basic, compact and low-cost configuration

Control units

The power circuit above can be combined with one of three control unit types listed below, to best match the required functionality and I/O count. All control units also feature:

- Free Function Blocks and BICO (BInector-COnnector) technology for configuring on-board logic
- Integrated USB interface for local commissioning and diagnostics
- Optional memory card (SD) for parameter backup and copying. Software licenses (e.g. for CU250S-2 extended functions EPos (Easy Positioning) or extended safety) can also be purchased on an SD card.

Control unit type	CU230P-2	CU240E-2	CU250-2
Application	Pump, fan and compressor drives	General purpose	Enhanced performance
Control modes	V/F, sensorless vector	V/Hz, sensorless vector	V/Hz, sensorless vector, closed loop vector with speed encoder, positioning (EPos) with position encoder (requires license)
Functionality	<ul style="list-style-type: none"> 4x integrated PID controllers Pump staging Hibernation Essential service mode for fire pump or smoke extraction fan duty 	<ul style="list-style-type: none"> 1x integrated PID controller Motor holding brake 	<ul style="list-style-type: none"> 1x integrated PID controller Motor holding brake
Inputs	6 digital (24V) 4 analog (2x V or mA, 1 x mA or temp sensor, 1x temp sensor))	6 digital (24V) 2 analog Up to 1 Fail Safe FS-DI (uses 2 DI) Safety (F) version up to 3 FS-DI	11 digital (24V) 2 analog 4 selectable DI/DO Up to 3 Fail Safe FS-DI (each uses 2 DI)
Outputs	3 digital (2x relay, 240V AC, 1 x24V DC/2A) 2 analog	3 digital (24V) 2 analog	3 digital (24 V) 2 analog
Integrated Safety (encoderless)	N/A	Basic function STO Safety version CU240E-2 F/DP-F/PN-F also SS1, SLS, SDI, SSM	Basic function STO, SS1, SBC Extended safety functions (requires license) SLS, SDI, SDM

Communication bus interface

Each control unit is available with three different types of bus interface with a range of communication protocols.

Bus interface type	Serial RS485	PROFIBUS DP	Industrial Ethernet
Communication protocol (selectable by parameter)	<ul style="list-style-type: none"> USS Modbus RTU For CU230P-2 HVAC additionally: <ul style="list-style-type: none"> BACnet MS/TP Siemens FLN P1 	<ul style="list-style-type: none"> PROFIBUS DP (with PROFIsafe profile bus communications with Integrated Safety) 	<ul style="list-style-type: none"> PROFINET (with PROFIsafe and PROFIenergy profiles) EtherNet/IP

Product specifications

Standard 6-pulse								
Light overload		High overload		Related output current ¹⁾	Approx. max. input current ²⁾	Power module frame size	Enclosure mount type	SINAMICS G120E-2 enclosed drive Model No.
Output (at 460V, 60 Hz) HP	Baseload current ¹⁾ for 110% overload A	Output (at 460V, 60 Hz) HP	Baseload current ¹⁾ for 150% overload A					
1	2.2	.75	1.7	2.2	4.9	FSA	Wall	6SL3710-1BJ12-2AU2
1.5	3.1	1	2.2	3.1	6.1	FSA	Wall	6SL3710-1BJ13-1AU2
2	4.1	1.5	3.1	4.1	7.5	FSA	Wall	6SL3710-1BJ14-1AU2
3	5.9	2	4.1	5.9	9.7	FSA	Wall	6SL3710-1BJ16-0AU2
4	7.7	3	5.9	7.7	12.1	FSA	Wall	6SL3710-1BJ17-7AU2
5	10.2	4	7.7	10.2	15.3	FSB	Wall	6SL3710-1BJ21-0AU2
10	18	7.5	13.2	18	24.2	FSB	Wall	6SL3710-1BJ21-8AU2
15	26	10	18	26	34.6	FSC	Wall	6SL3710-1BJ22-5AU2
20	32	15	22	32	41.9	FSC	Wall	6SL3710-1BJ23-2AU2
25	38	20	27	38	38	FSD	Wall	6SL3710-1BJ23-8AU2
30	45	25	34	45	44	FSD	Wall	6SL3710-1BJ24-5AU2
40	60	30	41	60	59	FSD	Wall	6SL3710-1BJ26-0AU2
50	75	40	54	75	72	FSD	Wall	6SL3710-1BJ27-5AU2
60	90	50	68	90	88	FSE	Wall	6SL3710-1BJ29-0AU2
75	110	60	80	110	106.5	FSE	Wall	6SL3710-1BJ31-1AU2
100	145	75	100	145	142.5	FSF	Floor	6SL3710-1BJ31-5AU2
125	178	100	130	178	174.5	FSF	Floor	6SL3710-1BJ31-8AU2
150	205	125	160	205	200.5	FSF	Floor	6SL3710-1BJ32-0AU2
200	250	150	186	250	244.5	FSF	Floor	6SL3710-1BJ32-5AU2

1) The output current is derated to allow for the temperature rise inside the enclosure at an (external) ambient temperature of 104° F (40° C).

2) The input current is based upon the input current of the power module and includes:

¹⁾ For Standard 6-pulse drives, an allowance of 2.0A (≤60 hp), 4.5A (≤75 hp) or 2.5A (>60 hp) for auxiliary circuits

Note: Drive hp ratings are provided as a guide only, for standard 2, 4 or 6-pole motors. Actual motor currents may be higher, especially for motors with 8 or more poles. Select a drive based upon motor FLA (full load amps) and overloads.

Standard with the SINAMICS G120E-2 enclosed drive:

- NEMA 1 enclosure
- UL 508A listed
- SCCR (short circuit current rating) 65 kA
- Circuit breaker disconnect with flange mount operator handle and mechanical door interlock
- Intelligent operator panel (IOP-2), door-mounted and wired
- Enclosure fans with associated control
- Control power transformer for internal control power
- Cable entry top or bottom, line and motor side
- PM240-2 (non-regenerative) power module with integral braking chopper

Standard options

Pre-designed standard options are available to tailor the SINAMICS G120 enclosed drive to customer specifications, maintaining short factory delivery times. The SINAMICS G120E-2 drive is always supplied with a control unit, chosen from the list below (mandatory option).

Please refer to catalog D31 or the operating manuals for more detailed information and technical data of the various SINAMICS G120 control units.

Note:

- Some of the control unit inputs and/or outputs may be used for options.

Standard 6-pulse				
Code	Description	Functionality	Digital/analog Inputs/outputs	Bus communication interface
G80	CU230P-2 HVAC	Pump and fan	6DI/3DO/4AI/2AO	RS485: USS, Modbus RTU, BACnet MS/TP, P1
G81	CU230P-2 DP	Pump and fan	6DI/3DO/4AI/2AO	PROFIBUS DP
G82	CU230P-2 PN	Pump and fan	6DI/3DO/4AI/2AO	PROFINET, EtherNet/IP
G83	CU240E-2	General purpose	6DI/3DO/2AI/2AO, up to 1 FS-DI*	RS485: USS, Modbus RTU
G84	CU240E-2 DP	General purpose	6DI/3DO/2AI/2AO, up to 1 FS-DI*	PROFIBUS DP
G85	CU250S-2	Enhanced performance ¹⁾	11DI/3DO/2AI/2AO,4DI/DO, up to 3 FS-DI*	RS485: USS, Modbus RTU
G86	CU250S-2 DP	Enhanced performance ¹⁾	11DI/3DO/2AI/2AO,4DI/DO, up to 3 FS-DI*	PROFIBUS DP
G87	CU250S-2 PN	Enhanced performance ¹⁾	11DI/3DO/2AI/2AO,4DI/DO, up to 3 FS-DI*	PROFINET, EtherNet/IP
G88	CU240E-2 PN	General purpose	6DI/3DO/2AI/2AO, up to 1 FS-DI*	PROFINET, EtherNet/IP
G93	CU240E-2 F	General purpose, extended safety	6DI/3DO/2AI/2AO, up to 1 FS-DI*	RS485: USS, Modbus RTU
G94	CU240E-2 DP-F	General purpose, extended safety	6DI/3DO/2AI/2AO, up to 1 FS-DI*	PROFIBUS DP
G98	CU240E-2 PN-F	General purpose, extended safety	6DI/3DO/2AI/2AO, up to 1 FS-DI*	PROFINET, EtherNet/IP

¹⁾ CU250S-2 accepts both speed and position encoders

*FS-DI = Fail-Safe Input; each FS-DI utilizes two standard DI

Code	Enclosure options	Comment
M12	NEMA12 filters	
L50	Cabinet light and outlet	
L55	Cabinet space heaters (120V AC)	
L56	Motor space heater supply	
Y09	Special enclosure paint color [specify color]	

Code	Power circuit and protection options	
L08	Output reactor	
L10	Output dV/dt filter	(In additional options enclosure)
L13	Input isolation contactor—coil wired to terminals	
L15	Output sinusoidal filter	(In additional options enclosure)
L24	5% Input reactor	
L27	Input fuses	This option is standard on ratings 1-20HP
L28	2 contactor bypass (output/bypass contactors with overload relay)	
L29*	RVSS manual bypass (includes RVSS input and output contactor)	(In additional options enclosure)
L32	Output isolation contactor—coil wired to terminals	
L96	Input surge protective device	
L98	Motor thermal overload relay (already included in option L28)	
L99*	Motor protection relay (Multilin 369)	
P10	Input voltage monitor (Siemens type 3UG4)	

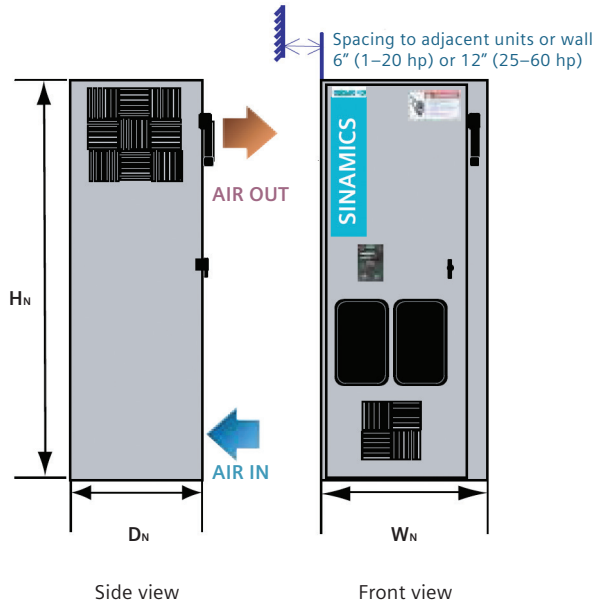
Code	Control options	
E86	Isolation amplifier for one analog input	
E87	Isolation amplifier for two analog output	
G79	AB Remote I/O converter to Ethernet I/P ²⁾	
K20	Pilot lights (qty. 3), door mounted—ready, run, fault	
K21	Additional local controls (L-R and H-O-A switches, speed potentiometer, Start/Stop pushbuttons)	
K22	Elapsed time (hour) meter, door-mounted, non-resettable	
L87*	Ground fault monitor for ungrounded supplies	
L97	RTD monitor for 8x Pt100 temperature sensors	
N55	ALL STOP mushroom pushbutton, latching, coast to stop	

Code	Special options	
N75	Expanded voltage range (380–480V supply system)	
U91	cUL listing for Canada	

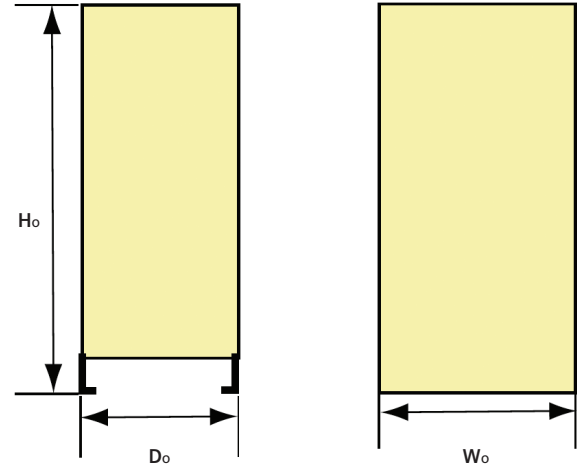
Please consult the factory for additional custom options. * = only for 100–200 hp (floor-standing enclosure) ²⁾ Consult with application team to verify your RIO configuration is compatible with the Gateway

Design data

Wall-mounted drive enclosure



Separate options enclosure (floor-standing)



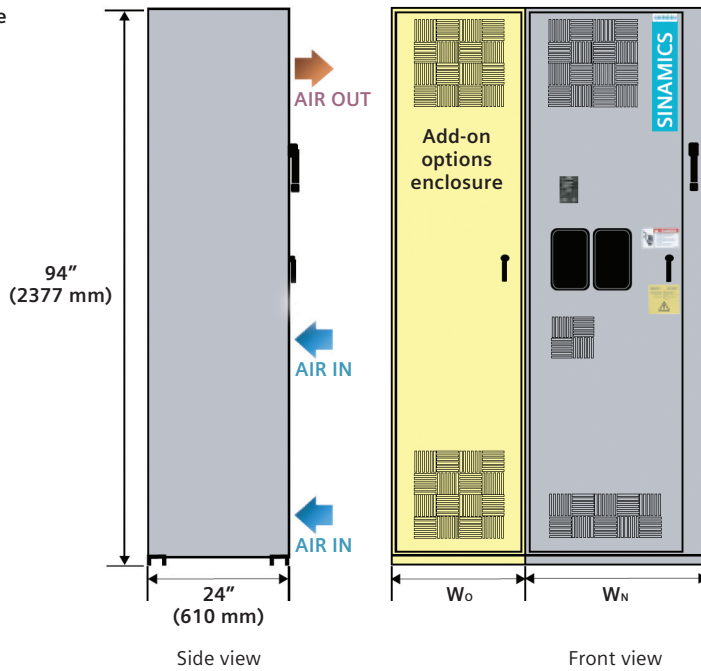
Wall-mounted drive enclosure

Model No.	Output (Light Overload) at 460V, 60 Hz	Noise level L_{PA} (1m) at 60 Hz	Cooling air flow demand	Heat loss	Weight approx.		Drive enclosure Nominal size $W_N \times D_N \times H_N$	
	hp	dB (A)	cfm	kW	lb.	kg	inch	mm
6SL3710-1BJ12-2AU2	1	65	77	0.068	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ13-1AU2	1.5	65	77	0.08	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ14-1AU2	2	65	77	0.096	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ16-0AU2	3	65	115	0.115	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ17-7AU2	4	65	115	0.148	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ21-0AU2	5	65	115	0.161	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ21-8AU2	10	65	182	0.27	230	104	16 x 13 x 43	406 x 330 x 1092
6SL3710-1BJ22-5AU2	15	65	182	0.341	230	104	18 x 13 x 43	457 x 330 x 1092
6SL3710-1BJ23-2AU2	20	65	182	0.421	230	104	18 x 13 x 43	457 x 330 x 1092
6SL3710-1BJ23-8AU2	25	67	318	0.615	330	150	26 x 16 x 46	660 x 406 x 1168
6SL3710-1BJ24-5AU2	30	67	318	0.745	330	150	26 x 16 x 46	660 x 406 x 1168
6SL3710-1BJ26-0AU2	40	67	318	0.855	330	150	26 x 16 x 46	660 x 406 x 1168
6SL3710-1BJ27-5AU2	50	67	360	1.125	330	150	26 x 16 x 46	660 x 406 x 1168
6SL3710-1BJ28-9AU2	60	67	360	1.355	330	150	26 x 16 x 46	660 x 406 x 1168
6SL3710-1BJ31-1AU2	75	67	360	1.755	330	150	26 x 16 x 46	660 x 406 x 1168

Floor-standing enclosure

Model No.	Output (Light Overload) at 460V, 60 Hz	Noise level L_{PA} (1m) at 60 Hz	Cooling air flow demand	Heat loss	Weight approx.		Drive enclosure Nominal size $W_N \times D_N \times H_N$	
	hp	dB (A)	cfm	kW	lb.	kg	inch	mm
6SL3710-1BJ31-5AU2	100	69	504	1.99	720	327	30 x 24 x 94	762 x 610 x 2377
6SL3710-1BJ31-8AU2	125	69	504	2.60	720	327	30 x 24 x 94	762 x 610 x 2377
6SL3710-1BJ32-0AU2	150	69	504	2.40	720	345	30 x 24 x 94	762 x 610 x 2377
6SL3710-1BJ32-5AU2	200	69	504	3.12	720	345	30 x 24 x 94	762 x 610 x 2377

Floor-mounted enclosure



Design data notes:

- To assure proper air circulation, please allow a minimum of 6" space (1–20 hp), and 12" space (25–60 hp) respectively, between adjacent wall-mounted drive enclosures or to a side wall.
- Dimensions are nominal for the enclosure, tolerance 0.5" (12 mm), excluding protruding components. Please refer to drawings for exact details.

Wall-mounted drive add-on options enclosure

Model No.	Output (Light Overload) at 460V, 60 Hz	Option enclosure L10 output dV/dt filter		Option enclosure L15 output with sinusoidal filter	
	hp	W ₀ x D ₀ x H ₀ inch/mm	Weight inch/kg	W ₀ x D ₀ x H ₀ inch/mm	Weight inch/kg
6SL3710-1BJ12-2AU2	1	13 x 13 x 13 / 330 x 330 x 330	18/8	13 x 13 x 14 / 330 x 330 x 356	20/9
6SL3710-1BJ13-1AU2	1.5	13 x 13 x 13 / 330 x 330 x 330	18/8	13 x 13 x 14 / 330 x 330 x 356	21/10
6SL3710-1BJ14-1AU2	2	13 x 13 x 13 / 330 x 330 x 330	18/8	13 x 13 x 14 / 330 x 330 x 356	25/11
6SL3710-1BJ16-0AU2	3	13 x 13 x 13 / 330 x 330 x 330	18/8	13 x 13 x 14 / 330 x 330 x 356	25/11
6SL3710-1BJ17-7AU2	4	13 x 13 x 13 / 330 x 330 x 330	18/8	13 x 13 x 14 / 330 x 330 x 356	27/12
6SL3710-1BJ21-0AU2	5	13 x 13 x 13 / 330 x 330 x 330	18/8	13 x 13 x 14 / 330 x 330 x 356	27/12
6SL3710-1BJ21-8AU2	10	13 x 13 x 13 / 330 x 330 x 330	19/9	13 x 13 x 14 / 330 x 330 x 356	34/15
6SL3710-1BJ22-5AU2	15	13 x 13 x 13 / 330 x 330 x 330	22/10	17 x 17 x 24 / 432 x 432 x 610	79/36
6SL3710-1BJ23-2AU2	20	13 x 13 x 13 / 330 x 330 x 330	22/10	17 x 17 x 24 / 432 x 432 x 610	82/37
6SL3710-1BJ23-8AU2	25	13 x 13 x 13 / 330 x 330 x 330	24/11	17 x 17 x 24 / 432 x 432 x 610	86/39
6SL3710-1BJ24-5AU2	30	13 x 13 x 13 / 330 x 330 x 330	24/11	17 x 17 x 24 / 432 x 432 x 610	95/43
6SL3710-1BJ26-0AU2	40	13 x 13 x 13 / 330 x 330 x 330	32/15	17 x 17 x 24 / 432 x 432 x 610	101/46
6SL3710-1BJ27-5AU2	50	13 x 13 x 13 / 330 x 330 x 330	40/18	18 x 21 x 34 / 457 x 533 x 864	136/62
6SL3710-1BJ28-9AU2	60	13 x 13 x 13 / 330 x 330 x 330	40/18	18 x 21 x 34 / 457 x 533 x 864	147/67
6SL3710-1BJ31-1AU2	75	13 x 13 x 13 / 330 x 330 x 330	40/18	18 x 21 x 34 / 457 x 533 x 864	147/67

Floor-standing add-on options enclosure

Model No.	Output (Light Overload) at 460V, 60 Hz	Option enclosure L10 output dV/dt filter		Option enclosure L15 output with sinusoidal filter		Option enclosure L29 softstart bypass	
	hp	W ₀ inch/mm	Weight inch/kg	W ₀ inch/mm	Weight inch/kg	W ₀ inch/mm	Weight inch/kg
6SL3710-1BJ31-5AU2	100	20 / 508	452/205	20 / 508	540 / 245	20 / 508	463 / 210
6SL3710-1BJ31-8AU2	125	20 / 508	452/205	20 / 508	540 / 245	20 / 508	463 / 210
6SL3710-1BJ32-0AU2	150	20 / 508	452/205	24 / 610	660 / 300	20 / 508	463 / 210
6SL3710-1BJ32-5AU2	200	20 / 508	452/205	24 / 610	660 / 300	20 / 508	463 / 210

Technical information

Electrical			
Supply voltages and output ranges	460–480V (optionally 380–480V) 3-phase AC, ±10%, 1–200 hp		
Supply systems	Grounded or ungrounded supplies		
Line frequency	47–63 Hz		
Output frequency	0–266 Hz (up to 650 Hz with derating)		
Power factor fundamental approx.	0.95		
Drive efficiency	93–97%		
Short circuit current rating	SCCR 65kA		
Control method	V/Hz control, V/Hz with flux current control (FCC), vector control, sensorless or closed loop with encoder		
Fixed speeds	16 fixed frequencies		
Skipped frequency ranges	4, programmable		
Braking operation	PM240-2 with integral brake chopper for dynamics braking, also DC and compound braking		
Mechanical			
Type of enclosure and color	NEMA 1, optionally NEMA12 (ventilated), ANSI 61 gray		
Type of cooling	Forced-air ventilation		
Noise level LpA (1 m)	45–70 dB (A) at 60 Hz line frequency		
Environmental protection	Nickel plated busbars, varnish coated electronic boards		
Compliance with standards and certifications			
UL listing	Listed to UL508A		
Ambient conditions	Operation	Storage	Transport
Ambient temperature	32°F–104° F (0° C to +40° C) Up to +122° F/+50° C with derating	-13°F–131° F (-25° C to +55° C)	-13°F–158° F (-25° C to +70° C) Down to -40° C for 24 hours
Relative humidity (non-condensing)	5% to 95%	5% to 95%	5% to 95% at 40° C
Installation altitude	Up to 3,300 ft (1000m) above sea level without reduction, >3,300 ft see derating data		

Accessories

Order numbers for purchasing accessories as loose parts are provided below.

Optional memory card with firmware V4.7 SP10 for CU230P-2, CU240E-2 and CU250S-2 Control Units	
6SL3054-7TF00-2BA0	SINAMICS SD card 512 MB + firmware V4.7 SP10 (Multicard V4.7 SP10)

Optional memory cards with licenses for CU250S-2 Control Units only	License Extended Functions		
	Basic positioner (EPos)	Safety (SLS, SSM,SDI)	Basic positioner + Safety (EPos) and (SLS, SSM,SDI)
SINAMICS SD card 512 MB + licenses	6SL3054-4AG00-2AA0-ZE01	6SL3054-4AG00-2AA0-ZF01	6SL3054-4AG00-2AA0-ZE01+F01
SINAMICS SD card 512 MB + firmware V4.7 SP10 (Multicard V4.7 SP10) + licenses	6SL3054-7TF00-2BA0-ZE01	6SL3054-7TF00-2BA0-ZF01	6SL3054-7TF00-2BA0-ZE01+F01
Licenses (without SD card) for upgrading license of an existing SD card	6SL3074-7AA04-0AA0	6SL3074-0AA10-0AA0	—

Braking Resistors				For drive hp rating:
6SL3201-OBE14-3AA0	Braking resistor 0.075 kW	(1.5 kW /12s)	370 ohm	1–2 hp
6SL3201-OBE21-0AA0	Braking resistor 0.2 kW	(4 kW /12s)	140 ohm	3–4 hp
6SL3201-OBE21-8AA0	Braking resistor 0.375 kW	(7.5 kW /12s)	75 ohm	5–10 hp
6SL3201-OBE23-8AA0	Braking resistor 0.925 kW	(18.5 kW /12s)	30 ohm	15–20 hp
JJY:023422620001	Braking resistor 1.1 kW	(22 kW /12s)	25 ohm	25–30 hp
JJY:023424020001	Braking resistor 1.85 kW	(37 kW /12s)	15 ohm	40–50 hp
JJY:023434020001	Braking resistor 2.75 kW	(55 kW /12s)	10 ohm	60–75 hp
JJY:023454020001	Braking resistor 3.85 kW	(77 kW /12s)	7.1 ohm	100–125 hp
JJY:023464020001	Braking resistor 5.5 kW	(110 kW /12s)	5 ohm	150–200 hp

Published by
Siemens Industry, Inc.

100 Technology Drive
Alpharetta, GA 30005

Order No. DRTD-G120XE-1021

Printed in USA

© 10.2021 Siemens Industry, Inc.

usa.siemens.com/motioncontrol

This document contains only general descriptions or performance features, which do not always apply in the manner described in concrete application situations or may change as the products undergo further development. Performance features are valid only if they are formally agreed upon when the contract is closed. Siemens is a registered trademark of Siemens AG.

Product names mentioned may be trademarks or registered trademarks of their respective companies. Specifications are subject to change without notice.