

System configuration

SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters

Integrated Drive Systems

Overview (continued)

SINAMICS G120P Power Modules for use in water/wastewater applications and in industrial environments, with degree of protection IP20, 380 to 480 V 3 AC

SINAMICS G120P									
Rated power ¹⁾		Rated output current I_{rated} ²⁾	Power based on the base-load current I_H ³⁾		Base-load current I_H ³⁾	Power Module			
400 V	460 V		400 V	460 V		Frame size	Type	Without integrated line filter	With integrated line filter class A (Category C2)
kW	hp	A	kW	hp	A			Article No.	Article No.
22	25	45	18.5	20	38	FSD	PM240P-2	6SL3210-1RE24-5UL0	6SL3210-1RE24-5AL0
30	30	60	22	25	45			6SL3210-1RE26-0UL0	6SL3210-1RE26-0AL0
37	40	75	30	30	60			6SL3210-1RE27-5UL0	6SL3210-1RE27-5AL0
45	50	90	37	40	75			6SL3210-1RE28-8UL0	6SL3210-1RE28-8AL0
55	60	110	45	50	90	FSF		6SL3210-1RE31-1UL0	6SL3210-1RE31-1AL0
75	75	145	55	60	110			6SL3210-1RE31-5UL0	6SL3210-1RE31-5AL0
90	100	178	75	75	145			6SL3210-1RE31-8UL0	6SL3210-1RE31-8AL0
110	125	205	90	100	178			6SL3210-1RE32-1UL0	6SL3210-1RE32-1AL0
132	150	250	110	125	205	GX	PM330	6SL3210-1RE32-5UL0	6SL3210-1RE32-5AL0
160	200	300	132	150	240			6SL3310-1PE33-0AA0	–
200	250	370	160	200	296			6SL3310-1PE33-7AA0	–
250	300	460	200	200	368			6SL3310-1PE34-6AA0	–
315	400	585	250	300	468	HX		6SL3310-1PE35-8AA0	–
355	450	655	250	300	491			6SL3310-1PE36-6AA0	–
400	500	735	315	350	551			6SL3310-1PE37-4AA0	–
450	500	840	355	450	672			6SL3310-1PE38-4AA0	–
500	600	910	400	500	728	JX		6SL3310-1PE38-8AA0	–
560	700	1021	450	500	786			6SL3310-1PE41-0AA0	–

¹⁾ PM240P-2: Rated power based on the rated output current I_{rated} . The rated output current I_{rated} is based on the duty cycle for low overload (LO). PM330: 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⁾ PM240P-2: The rated output current I_{rated} is based on the duty cycle for low overload (LO). These current values are valid for 400 V and are specified on the rating plate of the Power Module.

³⁾ The base-load current I_H is based on the duty cycle for high overload (HO).

SINAMICS G120P built-in and wall-mounted units

PM240P-2 Power Modules, 11 kW to 132 kW

PM240P-2 Power Modules

Integration (continued)

Maximum permissible cable lengths from the motor to the inverter when using output reactors or dv/dt filters depending on the voltage range

The following load-side power components in the appropriate frame sizes are optionally available for the Power Modules and result in the following maximum cable lengths:

PM240P-2 Power Module, frame sizes FSD and FSE	System operating voltage	Maximum permissible motor cable lengths (shielded/unshielded) in m (ft)
Without output option	380 ... 480 V 3 AC	200/300 (656/984)
Without output option, compliance with Category C2 acc. to EN 61800-3	380 ... 480 V 3 AC	150/- (492/-)
With two output reactors in series	380 ... 480 V 3 AC	350/525 (1148/1722)
With dv/dt filter plus VPL	500 ... 690 V 3 AC	300/450 (984/1476)

PM240P-2 Power Module, frame size FSF	System operating voltage	Maximum permissible motor cable lengths (shielded/unshielded) in m (ft)
Without output option	380 ... 480 V 3 AC 500 ... 690 V 3 AC	300/450 (984/1476) 300/450 (984/1476)
Without output option, compliance with Categories C2 and/or C3 acc. to EN 61800-3	380 ... 480 V 3 AC 500 ... 690 V 3 AC	150/- (Category C2) 150/- (Category C3)
With two output reactors in series	380 ... 480 V 3 AC 500 ... 690 V 3 AC	525/800 (1722/2625) 525/800 (1722/2625)
With dv/dt filter plus VPL	500 ... 690 V 3 AC	300/450 (984/1476)

Selection and ordering data

To ensure that a suitable Power Module is selected, the following currents should be used for applications:

- **Rated output current for applications with low overload (LO)**
- **Base-load current for applications with high overload (HO)**

With reference to the rated output current, the modules support at least 2-pole to 6-pole low-voltage motors, e.g. the SIMOTICS GP and SIMOTICS SD 1LE1 motor series. The rated power is merely a guide value. For a description of the overload performance, please refer to the general technical specifications of the Power Modules.

PM240P-2 Power Modules

Rated power ¹⁾		Rated output current <i>I</i> _{rated} ²⁾	Power based on the base-load current ³⁾		Base-load current <i>I</i> _H ³⁾	Frame size	PM240P-2 Power Module <u>without</u> integrated line filter	PM240P-2 Power Module <u>with</u> integrated line filter class A
400 V/ 690 V	460 V/ 575 V		400 V/ 690 V	460 V/ 575 V				
kW	hp	A	kW	hp	A		Article No.	Article No.
380 ... 480 V 3 AC								
22	25	45	18.5	20	38	FSD	6SL3210-1RE24-5UL0	6SL3210-1RE24-5AL0
30	30	60	22	25	45	FSD	6SL3210-1RE26-0UL0	6SL3210-1RE26-0AL0
37	40	75	30	30	60	FSD	6SL3210-1RE27-5UL0	6SL3210-1RE27-5AL0
45	50	90	37	40	75	FSE	6SL3210-1RE28-8UL0	6SL3210-1RE28-8AL0
55	60	110	45	50	90	FSE	6SL3210-1RE31-1UL0	6SL3210-1RE31-1AL0
75	75	145	55	60	110	FSF	6SL3210-1RE31-5UL0	6SL3210-1RE31-5AL0
90	100	178	75	75	145	FSF	6SL3210-1RE31-8UL0	6SL3210-1RE31-8AL0
110	125	205	90	100	178	FSF	6SL3210-1RE32-1UL0	6SL3210-1RE32-1AL0
132	150	250	110	125	205	FSF	6SL3210-1RE32-5UL0	6SL3210-1RE32-5AL0
500 ... 690 V 3 AC								
11	10	14	7.5	8	11	FSD	6SL3210-1RH21-4UL0	6SL3210-1RH21-4AL0
15	15	19	11	10	14	FSD	6SL3210-1RH22-0UL0	6SL3210-1RH22-0AL0
18.5	20	23	15	15	19	FSD	6SL3210-1RH22-3UL0	6SL3210-1RH22-3AL0
22	25	27	18.5	20	23	FSD	6SL3210-1RH22-7UL0	6SL3210-1RH22-7AL0
30	30	35	22	25	27	FSD	6SL3210-1RH23-5UL0	6SL3210-1RH23-5AL0
37	40	42	30	30	35	FSD	6SL3210-1RH24-2UL0	6SL3210-1RH24-2AL0
45	50	52	37	40	42	FSE	6SL3210-1RH25-2UL0	6SL3210-1RH25-2AL0
55	60	62	45	50	52	FSE	6SL3210-1RH26-2UL0	6SL3210-1RH26-2AL0
75	75	80	55	60	62	FSF	6SL3210-1RH28-0UL0	6SL3210-1RH28-0AL0
90	100	100	75	75	80	FSF	6SL3210-1RH31-0UL0	6SL3210-1RH31-0AL0
110	100	115	90	100	100	FSF	6SL3210-1RH31-2UL0	6SL3210-1RH31-2AL0
132	125	142	110	100	115	FSF	6SL3210-1RH31-4UL0	6SL3210-1RH31-4AL0

Note:

The power data in hp units is based on the NEC/CEC standards for the North American market.

¹⁾ Rated power based on the rated output current I_{rated} . The rated output current I_{rated} is based on the duty cycle for low overload (LO).

²⁾ The rated output current I_{rated} is based on the duty cycle for low overload (LO). These current values are valid for 400 V or 690 V and are specified on the rating plate of the Power Module.

³⁾ The base-load current I_H is based on the duty cycle for high overload (HO).

SINAMICS G120P built-in and wall-mounted units

PM240P-2 Power Modules, 11 kW to 132 kW

PM240P-2 Power Modules

Technical specifications

General technical specifications

	PM240P-2 Power Modules
System operating voltage	380 ... 480 V 3 AC $\pm 10\%$ (in operation -20 % < 1 min) 500 ... 690 V 3 AC $\pm 10\%$ (in operation -20 % < 1 min)
Grid requirement	>25
Short-circuit power R_{SC}	
Input frequency	47 ... 63 Hz
Output frequency	
• Control mode V/f	0 ... 550 Hz
• Control type Vector	0 ... 200 Hz
Pulse frequency	
• At 380 ... 480 V 3 AC $\pm 10\%$	up to 90 kW (121 hp) (LO): 4 kHz from 110 kW (148 hp) (LO): 2 kHz Higher pulse frequencies up to 16 kHz, see derating data
• At 500 ... 690 V 3 AC $\pm 10\%$	2 kHz, can be adjusted to 4 kHz
Power factor λ	0.95 at 380 ... 480 V 3 AC 0.9 at 500 ... 690 V 3 AC
Offset factor $\cos \varphi$	0.99
Inverter efficiency	>97 % at 380 ... 480 V 3 AC >98 % at 500 ... 690 V 3 AC
Output voltage, max. As % of input voltage	95 %
Overload capability	
• Low overload (LO)	1.35 $\times$ base-load current I_L (i.e. 135 % overload) for 3 s plus 1.1 $\times$ base-load current I_L (i.e. 110 % overload) for 57 s within a cycle time of 300 s
<u>Note:</u> When the overload capability is used, the base-load current I_L is not reduced.	
• High overload (HO)	1.5 $\times$ base-load current I_H (i.e. 150 % overload) for 60 s within a cycle time of 300 s
<u>Note:</u> When the overload capability is used, the base-load current I_H is not reduced.	
Electromagnetic compatibility	• Devices without line filter • Devices with line filter class A for compliance with conducted and radiated interference requirements of Category C2
Possible braking methods	• DC braking • Compound braking
Degree of protection	IP20
Operating temperature	
• Low overload (LO)	-20 ... +40 °C (-4 ... +104 °F) without derating >40 ... 60 °C (>104 ... 140 °F) see derating characteristics
• High overload (HO)	-20 ... +50 °C (-4 ... +122 °F) without derating >50 ... 60 °C (>122 ... 140 °F) see derating characteristics
Relative humidity	5 ... 95 %, condensation not permitted
Storage temperature	-25 ... +55 °C (-13 ... +131 °F)
Cooling	Internal ventilation, power units with increased air cooling by built-in fans
Installation altitude	Up to 1000 m (3281 ft) above sea level without derating, > 1000 m (3281 ft) see derating characteristics
Protection functions	• Undervoltage • Overvoltage • Overcurrent/overload • Overtemperature • Ground fault • Short-circuit • Stall protection • Motor blocking protection • Motor overtemperature • Inverter overtemperature • Parameter locking
Short-Circuit Current Rating SCCR (Short-Circuit Current Rating) ¹⁾	100 kA
Compliance with standards	UL, cUL, CE, RCM, SEMI F47
CE marking	According to Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU

¹⁾ Applies to industrial control panel installations to NEC article 409 or UL 61800-5-1.

SINAMICS G120P built-in and wall-mounted units

PM240P-2 Power Modules, 11 kW to 132 kW

PM240P-2 Power Modules

Technical specifications (continued)

PM240P-2 Power Modules

Line voltage 380 ... 480 V 3 AC		PM240P-2 Power Modules				
Without integrated line filter		6SL3210-1RE24-5UL0	6SL3210-1RE26-0UL0	6SL3210-1RE27-5UL0	6SL3210-1RE28-8UL0	6SL3210-1RE31-1UL0
With integrated line filter		6SL3210-1RE24-5AL0	6SL3210-1RE26-0AL0	6SL3210-1RE27-5AL0	6SL3210-1RE28-8AL0	6SL3210-1RE31-1AL0
Output current at 50 Hz 400 V 3 AC						
• Rated current $I_{rated}^{1)}$	A	45	60	75	90	110
• Base-load current $I_L^{1)}$	A	45	60	75	90	110
• Base-load current $I_H^{2)}$	A	38	45	60	75	90
• Maximum current I_{max}	A	61	81	102	122	149
Rated power						
• Based on I_L	kW	22	30	37	45	55
• Based on I_H	kW	18.5	22	30	37	45
Rated pulse frequency	kHz	4	4	4	4	4
Efficiency η	%	98	98	98	98	98
Power loss ³⁾ at rated current						
• Without integrated line filter	kW	0.7	0.85	1.12	1.25	1.59
• With integrated line filter	kW	0.71	0.85	1.12	1.28	1.63
Cooling air requirement	m ³ /s (ft ³ /s)	0.055 (1.94)	0.055 (1.94)	0.055 (1.94)	0.083 (2.93)	0.083 (2.93)
Sound pressure level L_{pA} (1 m)	dB	71.6	71.6	71.6	70.6	70.6
24 V DC power supply for Control Unit	A	1	1	1	1	1
Rated input current $I_{rated}^{4)}$		42	57	70	86	104
Line supply connection U1/L1, V1/L2, W1/L3		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	25 ... 70	25 ... 70
Motor connection U2, V2, W2		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	25 ... 70	25 ... 70
Feedback connection F3, R1		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	25 ... 70	25 ... 70
PE connection		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	25 ... 70	25 ... 70
Motor cable length ⁵⁾, max.						
• Shielded	m (ft)	200 (656)	200 (656)	200 (656)	200 (656)	200 (656)
• Unshielded	m (ft)	300 (984)	300 (984)	300 (984)	300 (984)	300 (984)
Degree of protection		IP20	IP20	IP20	IP20	IP20
Dimensions						
• Width	mm (in)	200 (7.87)	200 (7.87)	200 (7.87)	275 (10.8)	275 (10.8)
• Height	mm (in)	472 (18.6)	472 (18.6)	472 (18.6)	551 (21.7)	551 (21.7)
• Depth						
- Without operator panel	mm (in)	237 (9.33)	237 (9.33)	237 (9.33)	237 (9.33)	237 (9.33)
- With Control Unit and operator panel, max.	mm (in)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)
Frame size		FSD	FSD	FSD	FSE	FSE
Weight, approx.						
• Without integrated line filter	kg (lb)	16.6 (36.6)	18.3 (40.3)	18.3 (40.3)	26 (57.3)	26 (57.3)
• With integrated line filter	kg (lb)	18.3 (40.3)	19 (41.9)	19 (41.9)	28 (61.7)	28 (61.7)

¹⁾ The rated output current I_{rated} and the base-load current I_L are based on the duty cycle for low overload (LO).

²⁾ The base-load current I_H is based on the duty cycle for high overload (HO).

³⁾ Maximum values. You can find more information on the Internet at <https://support.industry.siemens.com/cs/document/94059311>

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_{rated}) for a line impedance corresponding to $u_K = 1\%$.

⁵⁾ The specified cable lengths apply to Power Modules without output option and without compliance with the limit values for RI suppression.

SINAMICS G120P built-in and wall-mounted units

PM240P-2 Power Modules, 11 kW to 132 kW

PM240P-2 Power Modules

Technical specifications (continued)

Line voltage 380 ... 480 V 3 AC		PM240P-2 Power Modules			
Without integrated line filter		6SL3210-1RE31-5UL0	6SL3210-1RE31-8UL0	6SL3210-1RE32-1UL0	6SL3210-1RE32-5UL0
With integrated line filter		6SL3210-1RE31-5AL0	6SL3210-1RE31-8AL0	6SL3210-1RE32-1AL0	6SL3210-1RE32-5AL0
Output current at 50 Hz 400 V 3 AC					
• Rated current $I_{rated}^{1)}$	A	145	178	205	250
• Base-load current $I_L^{1)}$	A	145	178	205	250
• Base-load current $I_H^{2)}$	A	110	145	178	205
• Maximum current I_{max}	A	196	214	277	338
Rated power					
• Based on I_L	kW	75	90	110	132
• Based on I_H	kW	55	75	90	110
Rated pulse frequency	kHz	4	4	2	2
Efficiency η	%	98	98	98	98
Power loss ³⁾ at rated current					
• Without integrated line filter	kW	1.58	2.07	2.28	2.97
• With integrated line filter	kW	1.6	2.1	2.31	3.01
Cooling air requirement	m ³ /s (ft ³ /s)	0.153 (5.40)	0.153 (5.40)	0.153 (5.40)	0.153 (5.40)
Sound pressure level L_{pA} (1 m)	dB	67.7	67.7	67.7	67.7
24 V DC power supply for Control Unit	A	1	1	1	1
Rated input current $I_{rated}^{4)}$	A	140	172	198	242
Line supply connection U1/L1, V1/L2, W1/L3		M10 screw stud	M10 screw stud	M10 screw stud	M10 screw stud
• Conductor cross-section	mm ²	35 ... 120	35 ... 120	35 ... 120	35 ... 120
Motor connection U2, V2, W2		M10 screw stud	M10 screw stud	M10 screw stud	M10 screw stud
• Conductor cross-section	mm ²	35 ... 120	35 ... 120	35 ... 120	35 ... 120
Feedback connection F3, R1		M10 screw stud	M10 screw stud	M10 screw stud	M10 screw stud
• Conductor cross-section	mm ²	35 ... 2 x 120	35 ... 2 x 120	35 ... 2 x 120	35 ... 2 x 120
PE connection		M10 screw stud	M10 screw stud	M10 screw stud	M10 screw stud
• Conductor cross-section	mm ²	35 ... 120	35 ... 120	35 ... 120	35 ... 120
Motor cable length ⁵⁾, max.					
• Shielded	m (ft)	300 (984)	300 (984)	300 (984)	300 (984)
• Unshielded	m (ft)	450 (1476)	450 (1476)	450 (1476)	450 (1476)
Degree of protection		IP20	IP20	IP20	IP20
Dimensions					
• Width	mm (in)	305 (12.0)	305 (12.0)	305 (12.0)	305 (12.0)
• Height	mm (in)	708 (27.9)	708 (27.9)	708 (27.9)	708 (27.9)
• Depth					
- Without operator panel	mm (in)	357 (14.1)	357 (14.1)	357 (14.1)	357 (14.1)
- With Control Unit and operator panel, max.	mm (in)	394.5 (15.5)	394.5 (15.5)	394.5 (15.5)	394.5 (15.5)
Frame size		FSF	FSF	FSF	FSF
Weight, approx.					
• Without integrated line filter	kg (lb)	57 (126)	57 (126)	61 (134)	61 (134)
• With integrated line filter	kg (lb)	63 (139)	63 (139)	65 (143)	65 (143)

¹⁾ The rated output current I_{rated} and the base-load current I_L are based on the duty cycle for low overload (LO).

²⁾ The base-load current I_H is based on the duty cycle for high overload (HO).

³⁾ Maximum values. You can find more information on the Internet at <https://support.industry.siemens.com/cs/document/94059311>

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_{rated}) for a line impedance corresponding to $u_K = 1\%$.

⁵⁾ The specified cable lengths apply to Power Modules without output option and without compliance with the limit values for RI suppression.

SINAMICS G120P built-in and wall-mounted units

PM240P-2 Power Modules, 11 kW to 132 kW

PM240P-2 Power Modules

Technical specifications (continued)

Line voltage 500 ... 690 V 3 AC		PM240P-2 Power Modules					
Without integrated line filter		6SL3210-1RH21-4UL0	6SL3210-1RH22-0UL0	6SL3210-1RH22-3UL0	6SL3210-1RH22-7UL0	6SL3210-1RH23-5UL0	6SL3210-1RH24-2UL0
With integrated line filter		6SL3210-1RH21-4AL0	6SL3210-1RH22-0AL0	6SL3210-1RH22-3AL0	6SL3210-1RH22-7AL0	6SL3210-1RH23-5AL0	6SL3210-1RH24-2AL0
Output current at 50 Hz 690 V 3 AC							
• Rated current $I_{rated}^{1)}$	A	14	19	23	27	35	42
• Base-load current $I_L^{1)}$	A	14	19	23	27	35	42
• Base-load current $I_H^{2)}$	A	11	14	19	23	27	35
• Maximum current I_{max}	A	19	26	32	37	48	57
Rated power							
• Based on I_L	kW	11	15	18.5	22	30	37
• Based on I_H	kW	7.5	11	15	18.5	22	30
Rated pulse frequency	kHz	2	2	2	2	2	2
Efficiency η	%	98	98	98	98	98	98
Power loss ³⁾ at rated current							
• Without integrated line filter	kW	0.36	0.45	0.52	0.61	0.77	0.94
• With integrated line filter	kW	0.36	0.45	0.53	0.61	0.78	0.94
Cooling air requirement	m ³ /s (ft ³ /s)	0.055 (1.94)	0.055 (1.94)	0.055 (1.94)	0.055 (1.94)	0.055 (1.94)	0.055 (1.94)
Sound pressure level L_{pA} (1 m)	dB	71.6	71.6	71.6	71.6	71.6	71.6
24 V DC power supply for Control Unit	A	1	1	1	1	1	1
Rated input current $I_{rated}^{4)}$	A	14	18	22	25	33	40
Line supply connection U1/L1, V1/L2, W1/L3		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35
Motor connection U2, V2, W2		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35
Feedback connection F3, R1		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35
PE connection		Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal	Screw-type terminal
• Conductor cross-section	mm ²	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35	10 ... 35
Motor cable length ⁵⁾, max.							
• Shielded	m (ft)	200 (656)	200 (656)	200 (656)	200 (656)	200 (656)	200 (656)
• Unshielded	m (ft)	300 (984)	300 (984)	300 (984)	300 (984)	300 (984)	300 (984)
Degree of protection		IP20	IP20	IP20	IP20	IP20	IP20
Dimensions							
• Width	mm (in)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)
• Height	mm (in)	472 (18.6)	472 (18.6)	472 (18.6)	472 (18.6)	472 (18.6)	472 (18.6)
• Depth							
- Without operator panel	mm (in)	237 (9.33)	237 (9.33)	237 (9.33)	237 (9.33)	237 (9.33)	237 (9.33)
- With Control Unit and operator panel, max.	mm (in)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)	274.5 (10.8)
Frame size		FSD	FSD	FSD	FSD	FSD	FSD
Weight, approx.							
• Without integrated line filter	kg (lb)	17.4 (38.4)	17.4 (38.4)	17.4 (38.4)	17.4 (38.4)	17.4 (38.4)	17.4 (38.4)
• With integrated line filter	kg (lb)	18.9 (41.7)	18.9 (41.7)	18.9 (41.7)	18.9 (41.7)	18.9 (41.7)	18.9 (41.7)

¹⁾ The rated output current I_{rated} and the base-load current I_L are based on the duty cycle for low overload (LO).

²⁾ The base-load current I_H is based on the duty cycle for high overload (HO).

³⁾ Maximum values. You can find more information on the Internet at <https://support.industry.siemens.com/cs/document/94059311>

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_{rated}) for a line impedance corresponding to $u_K = 1\%$.

⁵⁾ The specified cable lengths apply to Power Modules without output option and without compliance with the limit values for RI suppression.