

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors

Forced ventilation, IP55 degree of protection

Selection and ordering data

Rated speed	Shaft height	Rated power	Rated torque	Rated current	Rated voltage	Speed during field weakening ¹⁾	Continuous speed, max. ²⁾	Speed, max. ³⁾	1PH7 asynchronous motor Forced ventilation
n_{rated} rpm	SH	P_{rated} kW (HP)	M_{rated} Nm (lb _F -ft)	I_{rated} A	U_{rated} V	n_2 rpm	n_{S1} rpm	n_{max} rpm	Order No.
Line voltage 400 V 3 AC, Smart/Basic Line Module									
400	180	16.3 (21.9)	390 (288)	51	271	2100 ⁴⁾	3500 ⁵⁾⁴⁾	5000 ⁴⁾	1PH7184-■ ■ B ■ ■ - ■ ...
		21.2 (28.4)	505 (373)	67	268	2400 ⁴⁾	3500 ⁵⁾⁴⁾	5000 ⁴⁾	1PH7186-■ ■ B ■ ■ - ■ ...
	225	30.4 (40.8)	725 (535)	88	268	1900	3100 ⁵⁾⁴⁾	4500 ⁴⁾	1PH7224-■ ■ B ■ ■ - ■ ...
		39.2 (52.6)	935 (690)	114	264	2200 ⁴⁾	3100 ⁵⁾⁴⁾	4500 ⁴⁾	1PH7226-■ ■ B ■ ■ - ■ ...
		48 (64.4)	1145 (845)	136	272	2200 ⁴⁾	3100 ⁵⁾⁴⁾	4500 ⁵⁾⁴⁾	1PH7228-■ ■ B ■ ■ - ■ ...
1000	180	39 (52.3)	372 (274)	90	335	3300	3500 ⁵⁾	5000	1PH7184-■ ■ D ■ ■ - ■ ...
		51 (68.4)	485 (358)	116	340	3700	3500 ⁵⁾	5000	1PH7186-■ ■ D ■ ■ - ■ ...
	225	71 (95.2)	678 (500)	161	335	2900	3100 ⁵⁾	4500	1PH7224-■ ■ D ■ ■ - ■ ...
		92 (123)	880 (649)	198	340	2900	3100 ⁵⁾	4500	1PH7226-■ ■ D ■ ■ - ■ ...
		113 (152)	1080 (797)	240	340	2900	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ D ■ ■ - ■ ...
1500	180	51 (68.4)	325 (240)	120	335	5000	3500 ⁵⁾	5000	1PH7184-■ ■ F ■ ■ - ■ ...
		74 (99.2)	471 (347)	170	330	5000	3500 ⁵⁾	5000	1PH7186-■ ■ F ■ ■ - ■ ...
	225	95 (127)	605 (446)	204	340	2900	3100 ⁵⁾	4500	1PH7224-■ ■ U ■ ■ - ■ ...
		130 (174)	828 (611)	278	340	2900	3100 ⁵⁾	4500	1PH7226-■ ■ F ■ ■ - ■ ...
		160 (215)	1019 (752)	350	340	2900	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ F ■ ■ - ■ ...
2500	180	78 (10.5)	298 (220)	171	340	5000	3500 ⁵⁾	5000	1PH7184-■ ■ L ■ ■ - ■ ...
		106 (142)	405 (299)	235	335	5000	3500 ⁵⁾	5000	1PH7186-■ ■ L ■ ■ - ■ ...
	225	142 (190)	542 (400)	298	340	3500	3100 ⁵⁾	4500	1PH7224-■ ■ L ■ ■ - ■ ...
		168 (225)	642 (438)	362	335	3500	3100 ⁵⁾	4500	1PH7226-■ ■ L ■ ■ - ■ ...
		205 (275)	783 (578)	433	340	3500	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ L ■ ■ - ■ ...

For versions, see
Order No. supplement and
options on page 5/72.

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

Motor type (repeated)	Power factor	Magne- tizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	Terminal box	SINAMICS S120 Motor Module	
	$\cos \varphi$	I_{μ}	η_{rated}	f_{rated}	J			Rated output current ⁶⁾	For additional versions and components see chapter SINAMICS S120 drive system
		A		Hz	kgm ² (lb _f -in-s ²)	kg (lb)	Type	A	Order No.
1PH7184-..B...	0.84	26	0.830	14.2	0.503 (4.45)	370 (816)	1XB7322	60	6SL3120- 1 TE26-0AA3
1PH7186-..B...	0.81	38.5	0.845	14.0	0.666 (5.89)	440 (970)	1XB7322	85	6SL3120- 1 TE28-5AA3
1PH7224-..B...	0.87	36.5	0.864	14.0	1.479 (13.1)	630 (1389)	1XB7322	85 ⁷⁾	6SL3120- 1 TE28-5AA3
1PH7226-..B...	0.86	49	0.880	14.0	1.930 (17.1)	750 (1654)	1XB7322	132	6SL3120- 1 TE31-3AA3
1PH7228-..B...	0.85	60.5	0.888	13.9	2.326 (20.6)	860 (1896)	1XB7322	132 ⁷⁾	6SL3120- 1 TE31-3AA3
1PH7184-..D...	0.83	44	0.913	34.2	0.503 (4.45)	370 (816)	1XB7322	85 ⁷⁾	6SL3120- 1 TE28-5AA3
1PH7186-..D...	0.81	58	0.918	34.1	0.666 (5.89)	440 (970)	1XB7322	132	6SL3120- 1 TE31-3AA3
1PH7224-..D...	0.81	78.5	0.934	33.9	1.479 (13.1)	630 (1389)	1XB7322	200	6SL3120- 1 TE32-0AA3
1PH7226-..D...	0.84	87.5	0.935	33.9	1.930 (17.1)	750 (1654)	1XB7422	200	6SL3120- 1 TE32-0AA3
1PH7228-..D...	0.85	98	0.938	33.9	2.326 (20.6)	860 (1896)	1XB7700	260	6SL3320- 1 TE32-6AA3
1PH7184-..F...	0.78	64	0.930	50.7	0.503 (4.45)	370 (816)	1XB7322	132	6SL3120- 1 TE31-3AA3
1PH7186-..F...	0.81	84	0.937	50.7	0.666 (5.89)	440 (970)	1XB7422	200	6SL3120- 1 TE32-0AA3
1PH7224-..U...	0.84	88.5	0.944	50.6	1.479 (13.1)	630 (1398)	1XB7422	200 ⁷⁾	6SL3120- 1 TE32-0AA3
1PH7226-..F...	0.84	120	0.945	50.6	1.930 (17.1)	750 (1654)	1XB7700	310	6SL3320- 1 TE33-1AA3
1PH7228-..F...	0.82	169	0.949	50.5	2.326 (20.6)	860 (1896)	1XB7700	380	6SL3320- 1 TE33-8AA3
1PH7184-..L...	0.82	77	0.937	84.1	0.503 (4.45)	370 (816)	1XB7322	200	6SL3120- 1 TE32-0AA3
1PH7186-..L...	0.82	108	0.942	84.1	0.666 (5.89)	440 (970)	1XB7422	260	6SL3320- 1 TE32-6AA3
1PH7224-..L...	0.84	115	0.948	84.0	1.479 (13.1)	630 (1389)	1XB7700	310	6SL3320- 1 TE33-1AA3
1PH7226-..L...	0.84	154	0.950	84.0	1.930 (17.1)	750 (1654)	1XB7700	380	6SL3320- 1 TE33-8AA3
1PH7228-..L...	0.84	185	0.950	83.9	2.326 (20.6)	860 (1896)	1XB7700	490	6SL3320- 1 TE35-0AA3

¹⁾ n_2 : Max. permissible thermal speed at constant power or speed which is at the voltage limit when $P = P_{\text{rated}}$.

²⁾ n_{S1} : Maximum permissible speed that is continuously permitted without speed duty cycles.

³⁾ n_{max} : Maximum speed that must not be exceeded.

⁴⁾ The speed is limited to lower values in some cases. The following restriction applies: Maximum output frequency $< 5 \times$ motor rated frequency.

⁵⁾ Speed is reduced with increased radial forces, see selection guides.

⁶⁾ The rated pulse frequencies must be taken into account. The rated motor data is valid for 4 kHz or 2 kHz.

⁷⁾ The rated output current of the Motor Module is lower than the motor rated current.

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors

Forced ventilation, IP55 degree of protection

Selection and ordering data

Rated speed	Shaft height	Rated power	Rated torque	Rated current	Rated voltage	Speed during field weakening ¹⁾	Continuous speed, max. ²⁾	Speed, max. ³⁾	1PH7 asynchronous motor Forced ventilation
n_{rated} rpm	SH	P_{rated} kW (HP)	M_{rated} Nm (lb _F -ft)	I_{rated} A	U_{rated} V	n_2 rpm	n_{S1} rpm	n_{max} rpm	Order No.
Line voltage 400 V 3 AC, Active Line Module									
400	180	16.3 (21.9)	390 (288)	51	271	2900 ⁴⁾	3500 ⁴⁾⁵⁾	5000 ⁴⁾	1PH7184-■ ■ B ■ ■ - ■ ...
		21.2 (28.4)	505 (373)	67	268	3300 ⁴⁾	3500 ⁴⁾⁵⁾	5000 ⁴⁾	1PH7186-■ ■ B ■ ■ - ■ ...
	225	30.4 (40.8)	725 (535)	88	268	2700 ⁴⁾	3100 ⁴⁾⁵⁾	4500 ⁴⁾	1PH7224-■ ■ B ■ ■ - ■ ...
		39.2 (52.6)	935 (690)	114	264	2900 ⁴⁾	3100 ⁴⁾⁵⁾	4500 ⁴⁾	1PH7226-■ ■ B ■ ■ - ■ ...
		48 (64.4)	1145 (845)	136	272	2900 ⁴⁾	3100 ⁴⁾⁵⁾	4500 ⁴⁾⁵⁾	1PH7228-■ ■ B ■ ■ - ■ ...
500	280	80 (107)	1529 (1128)	144	400	1700	2200	3300 ⁴⁾	1PH7284-■ ■ B ■ ■ - 0 ...
		100 (134)	1909 (1408)	180	400	1800	2200	3300 ⁴⁾	1PH7286-■ ■ B ■ ■ - 0 ...
		130 (174)	2481 (1830)	233	400	1800	2200	3300 ⁴⁾	1PH7288-■ ■ B ■ ■ - 0 ...
800	280	125 (168)	1492 (1101)	220	400	2200	2200	3300	1PH7284-■ ■ C ■ ■ - 0 ...
		155 (208)	1850 (1365)	285	385	2200	2200	3300	1PH7286-■ ■ C ■ ■ - 0 ...
		190 (255)	2268 (1673)	365	370	2200	2200	3300	1PH7288-■ ■ C ■ ■ - 0 ...
1150	180	44 (59)	366 (270)	89	383	4200	3500 ⁵⁾	5000	1PH7184-■ ■ D ■ ■ - ■ ...
		58 (77.8)	482 (356)	116	390	4400	3500 ⁵⁾	5000	1PH7186-■ ■ D ■ ■ - ■ ...
	225	81 (109)	670 (494)	160	385	2900	3100 ⁵⁾	4500	1PH7224-■ ■ D ■ ■ - ■ ...
		105 (141)	870 (642)	197	390	2900	3100 ⁵⁾	4500	1PH7226-■ ■ D ■ ■ - ■ ...
		129 (173)	1070 (789)	238	390	2900	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ D ■ ■ - ■ ...
	280	170 (228)	1414 (1043)	314	400	2200	2200	3300	1PH7284-■ ■ D ■ ■ - 0 ...
		210 (282)	1745 (1287)	414	380	2200	2200	3300	1PH7286-■ ■ D ■ ■ - 0 ...
		260 (349)	2160 (1593)	497	385	2200	2200	3300	1PH7288-■ ■ D ■ ■ - 0 ...
	1750	60 (80.5)	327 (241)	120	388	5000	3500 ⁵⁾	5000	1PH7184-■ ■ F ■ ■ - ■ ...
		85 (114)	465 (343)	169	385	5000	3500 ⁵⁾	5000	1PH7186-■ ■ F ■ ■ - ■ ...
	225	110 (148)	600 (443)	203	395	2900	3100 ⁵⁾	4500	1PH7224-■ ■ U ■ ■ - ■ ...
		135 (181)	737 (544)	254	395	2900	3100 ⁵⁾	4500	1PH7226-■ ■ F ■ ■ - ■ ...
		179 (240)	975 (719)	342	395	2900	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ F ■ ■ - ■ ...
	280	225 (302)	1228 (906)	393	400	2200	2200	3300	1PH7284-■ ■ F ■ ■ - 0 ...
		270 (362)	1474 (1087)	466	400	2200	2200	3300	1PH7286-■ ■ F ■ ■ - 0 ...
		340 (456)	1856 (1369)	586	400	2200	2200	3300	1PH7288-■ ■ F ■ ■ - 0 ...
2900	180	81 (109)	265 (196)	158	395	5000	3500 ⁵⁾	5000	1PH7184-■ ■ L ■ ■ - ■ ...
		101 (135)	333 (246)	206	385	5000	3500 ⁵⁾	5000	1PH7186-■ ■ L ■ ■ - ■ ...
	225	149 (200)	490 (361)	274	395	3500	3100 ⁵⁾	4500	1PH7224-■ ■ L ■ ■ - ■ ...
		185 (248)	610 (450)	348	390	3500	3100 ⁵⁾	4500	1PH7226-■ ■ L ■ ■ - ■ ...
		215 (288)	708 (522)	402	395	3500	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ L ■ ■ - ■ ...

For versions, see
Order No. supplement and
options on page 5/72.

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

Motor type (repeated)	Power factor	Magne- tizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	Terminal box	SINAMICS S120 Motor Module	
								Rated output current ⁶⁾	For additional versions and components see chapter SINAMICS S120 drive system
	$\cos \varphi$	I_μ	η_{rated}	f_{rated}	J			I_{rated}	Order No.
		A		Hz	kgm ² (lb _F -in-s ²)	kg (lb)	Type	A	
1PH7184-..B...	0.84	26	0.830	14.2	0.503 (4.45)	370 (816)	1XB7322	60	6SL3120-1TE26-0AA3
1PH7186-..B...	0.81	38.5	0.845	14.0	0.666 (5.89)	440 (970)	1XB7322	85	6SL3120-1TE28-5AA3
1PH7224-..B...	0.87	36.5	0.864	14.0	1.479 (13.1)	630 (1389)	1XB7322	85 ⁷⁾	6SL3120-1TE28-5AA3
1PH7226-..B...	0.86	49	0.880	14.0	1.930 (17.1)	750 (1654)	1XB7322	132	6SL3120-1TE31-3AA3
1PH7228-..B...	0.85	60.5	0.888	13.9	2.326 (20.6)	860 (1896)	1XB7322	132 ⁷⁾	6SL3120-1TE31-3AA3
1PH7284-..B...	0.87	60	0.922	17	4.2 (37.2)	1300 (2867)	1XB7712	200	6SL3120-1TE32-0AA3
1PH7286-..B...	0.86	78	0.930	17	5.2 (46)	1500 (3308)	1XB7712	200	6SL3120-1TE32-0AA3
1PH7288-..B...	0.87	100	0.933	17	6.3 (55.8)	1700 (3749)	1XB7712	260	6SL3320-1TE32-6AA3
1PH7284-..C...	0.86	95	0.944	27	4.2 (37.2)	1300 (2867)	1XB7712	260	6SL3320-1TE32-6AA3
1PH7286-..C...	0.85	135	0.948	27	5.2 (46)	1500 (3308)	1XB7712	310	6SL3320-1TE33-1AA3
1PH7288-..C...	0.84	170	0.951	27	6.3 (55.8)	1700 (3749)	1XB7712	380	6SL3320-1TE33-8AA3
1PH7184-..D...	0.82	42	0.920	39.2	0.503 (4.45)	370 (816)	1XB7322	85 ⁷⁾	6SL3120-1TE28-5AA3
1PH7186-..D...	0.81	58	0.925	39.1	0.666 (5.89)	440 (970)	1XB7322	132	6SL3120-1TE31-3AA3
1PH7224-..D...	0.81	79	0.938	38.9	1.479 (13.1)	630 (1389)	1XB7322	200	6SL3120-1TE32-0AA3
1PH7226-..D...	0.84	87.5	0.941	38.9	1.930 (17.1)	750 (1654)	1XB7422	200	6SL3120-1TE32-0AA3
1PH7228-..D...	0.85	98	0.943	38.9	2.326 (20.6)	860 (1896)	1XB7700	260	6SL3320-1TE32-6AA3
1PH7284-..D...	0.82	158	0.956	38.6	4.2 (37.2)	1300 (2867)	1XB7712	310 ⁷⁾	6SL3320-1TE33-1AA3
1PH7286-..D...	0.81	218	0.958	38.6	5.2 (46)	1500 (3308)	1XB7712	490	6SL3320-1TE35-0AA3
1PH7288-..D...	0.82	252	0.960	38.6	6.3 (55.8)	1700 (3749)	1XB7712	490 ⁷⁾	6SL3320-1TE35-0AA3
1PH7184-..F...	0.78	64	0.934	59.0	0.503 (4.45)	370 (816)	1XB7322	132	6SL3120-1TE31-3AA3
1PH7186-..F...	0.80	84	0.940	59.0	0.666 (5.89)	440 (970)	1XB7422	200	6SL3120-1TE32-0AA3
1PH7224-..U...	0.84	88	0.944	58.9	1.479 (13.1)	630 (1389)	1XB7422	200 ⁷⁾	6SL3120-1TE32-0AA3
1PH7226-..F...	0.82	120	0.947	58.9	1.930 (17.1)	750 (1654)	1XB7700	260	6SL3320-1TE32-6AA3
1PH7228-..F...	0.81	169	0.948	58.8	2.326 (20.6)	860 (1896)	1XB7700	380	6SL3320-1TE33-8AA3
1PH7284-..F...	0.86	163	0.962	58.7	4.2 (37.2)	1300 (2867)	1XB7712	490	6SL3320-1TE35-0AA3
1PH7286-..F...	0.87	184	0.963	58.7	5.2 (46)	1500 (3308)	1XB7712	490	6SL3320-1TE35-0AA3
1PH7288-..F...	0.87	234	0.965	58.7	6.3 (55.8)	1700 (3749)	1XB7712	745	6SL3320-1TE37-5AA3
1PH7184-..L...	0.80	77	0.934	97.4	0.503 (4.45)	370 (816)	1XB7322	200	6SL3120-1TE32-0AA3
1PH7186-..L...	0.78	107	0.936	97.3	0.666 (5.89)	440 (970)	1XB7422	200 ⁷⁾	6SL3120-1TE32-0AA3
1PH7224-..L...	0.84	115	0.946	97.3	1.479 (13.1)	630 (1389)	1XB7700	310	6SL3320-1TE33-1AA3
1PH7226-..L...	0.83	154	0.946	97.2	1.930 (17.1)	750 (1654)	1XB7700	380	6SL3320-1TE33-8AA3
1PH7228-..L...	0.82	186	0.946	97.2	2.326 (20.6)	860 (1896)	1XB7700	490	6SL3320-1TE35-0AA3

¹⁾ n_2 : Max. permissible thermal speed at constant power or speed which is at the voltage limit when $P = P_{\text{rated}}$.

²⁾ n_{S1} : Maximum permissible speed that is continuously permitted without speed duty cycles.

³⁾ n_{max} : Maximum speed that must not be exceeded.

⁴⁾ The speed is limited to lower values in some cases. The following restriction applies: Maximum output frequency $< 5 \times$ motor rated frequency.

⁵⁾ Speed is reduced with increased radial forces, see selection guides.

⁶⁾ The rated pulse frequencies must be taken into account: The rated motor data is valid for 4 kHz or 2 kHz.

⁷⁾ The rated output current of the Motor Module is lower than the motor rated current.

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors

Forced ventilation, IP55 degree of protection

Selection and ordering data

Rated speed	Shaft height	Rated power	Rated torque	Rated current	Rated voltage	Speed during field weakening ¹⁾	Continuous speed, max. ²⁾	Speed, max. ³⁾	1PH7 asynchronous motor Forced ventilation
n_{rated} rpm	SH	P_{rated} kW (HP)	M_{rated} Nm (lb _r -ft)	I_{rated} A	U_{rated} V	n_2 rpm	n_{S1} rpm	n_{max} rpm	Order No.
Line voltage 480 V 3 AC, Smart/Basic/Active Line Module									
500	180	20.5 (27.5)	392 (289)	51	335	3200 ⁴⁾	3500 ⁴⁾⁵⁾	5000 ⁴⁾	1PH7184-■ ■ B ■ ■ - ■ ...
		26.5 (35.5)	506 (373)	67	335	3600 ⁴⁾	3500 ⁴⁾⁵⁾	5000 ⁴⁾	1PH7186-■ ■ B ■ ■ - ■ ...
	225	38 (51.0)	725 (535)	86	335	2900 ⁴⁾	3100 ⁴⁾⁵⁾	4500 ⁴⁾	1PH7224-■ ■ B ■ ■ - ■ ...
		49 (65.7)	935 (690)	112	330	3200 ⁴⁾	3100 ⁴⁾⁵⁾	4500 ⁴⁾	1PH7226-■ ■ B ■ ■ - ■ ...
		60 (80.5)	1145 (845)	135	340	3200 ⁴⁾	3100 ⁴⁾⁵⁾	4500 ⁴⁾⁵⁾	1PH7228-■ ■ B ■ ■ - ■ ...
600	280	95 (127)	1519 (1120)	144	480	2200	2200	3300 ⁴⁾	1PH7284-■ ■ B ■ ■ - 0 ...
		120 (161)	1916 (1413)	180	480	2200	2200	3300 ⁴⁾	1PH7286-■ ■ B ■ ■ - 0 ...
		155 (208)	2467 (1820)	233	480	2200	2200	3300 ⁴⁾	1PH7288-■ ■ B ■ ■ - 0 ...
1000	280	150 (201)	1433 (1057)	220	480	2200	2200	3300	1PH7284-■ ■ C ■ ■ - 0 ...
		185 (248)	1767 (1303)	285	480	2200	2200	3300	1PH7286-■ ■ C ■ ■ - 0 ...
		230 (308)	2197 (1621)	365	460	2200	2200	3300	1PH7288-■ ■ C ■ ■ - 0 ...
1350	180	50 (67.1)	355 (262)	86	450	5000	3500 ⁵⁾	5000	1PH7184-■ ■ D ■ ■ - ■ ...
		67 (89.9)	475 (350)	114	460	5000	3500 ⁵⁾	5000	1PH7186-■ ■ D ■ ■ - ■ ...
	225	92 (123)	650 (479)	156	450	2900	3100 ⁵⁾	4500	1PH7224-■ ■ D ■ ■ - ■ ...
		120 (161)	847 (625)	193	460	2900	3100 ⁵⁾	4500	1PH7226-■ ■ D ■ ■ - ■ ...
		147 (197)	1043 (769)	232	460	2900	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ D ■ ■ - ■ ...
	280	200 (268)	1416 (1044)	314	470	2200	2200	3300	1PH7284-■ ■ D ■ ■ - 0 ...
		245 (329)	1733 (1278)	414	445	2200	2200	3300	1PH7286-■ ■ D ■ ■ - 0 ...
		305 (409)	2158 (1592)	497	450	2200	2200	3300	1PH7288-■ ■ D ■ ■ - 0 ...
	280	200 (268)	1416 (1044)	314	470	2200	2200	3300	1PH7284-■ ■ D ■ ■ - 0 ...
2000	180	68 (91.2)	325 (240)	120	450	5000	3500 ⁵⁾	5000	1PH7184-■ ■ F ■ ■ - ■ ...
		94 (126)	450 (332)	165	445	5000	3500 ⁵⁾	5000	1PH7186-■ ■ F ■ ■ - ■ ...
	225	124 (166)	590 (435)	200	460	2900	3100 ⁵⁾	4500	1PH7224-■ ■ U ■ ■ - ■ ...
		153 (205)	730 (538)	254	450	2900	3100 ⁵⁾	4500	1PH7226-■ ■ F ■ ■ - ■ ...
		196 (263)	936 (690)	332	450	3000	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ F ■ ■ - ■ ...
	280	255 (342)	1218 (898)	393	455	2200	2200	3300	1PH7284-■ ■ F ■ ■ - 0 ...
		310 (416)	1481 (1092)	466	455	2200	2200	3300	1PH7286-■ ■ F ■ ■ - 0 ...
		385 (516)	1838 (1356)	586	455	2200	2200	3300	1PH7288-■ ■ F ■ ■ - 0 ...
	280	255 (342)	1218 (898)	393	455	2200	2200	3300	1PH7284-■ ■ F ■ ■ - 0 ...
2900	180	81 (109)	267 (197)	158	395	5000	3500 ⁵⁾	5000	1PH7184-■ ■ L ■ ■ - ■ ...
		101 (135)	333 (246)	206	385	5000	3500 ⁵⁾	5000	1PH7186-■ ■ L ■ ■ - ■ ...
	225	149 (200)	490 (361)	274	395	3500	3100 ⁵⁾	4500	1PH7224-■ ■ L ■ ■ - ■ ...
		185 (248)	610 (450)	348	390	3500	3100 ⁵⁾	4500	1PH7226-■ ■ L ■ ■ - ■ ...
		215 (288)	708 (522)	402	395	3500	3100 ⁵⁾	4500 ⁵⁾	1PH7228-■ ■ L ■ ■ - ■ ...

For versions, see
Order No. supplement and
options on page 5/72.

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

Motor type (repeated)	Power factor $\cos \varphi$	Magne- tizing current I_{μ} A	Efficiency η_{rated}	Rated frequency f_{rated} Hz	Moment of inertia J kgm ² (lb _r -in-s ²)	Weight, approx. kg (lb)	Terminal box Type	SINAMICS S120 Motor Module	
								Rated output current ⁶⁾ I_{rated} A	For additional versions and components see chapter SINAMICS S120 drive system Order No.
1PH7184-..B...	0.83	26	0.858	17.5	0.503 (4.45)	370 (816)	1XB7322	60	6SL3120-1TE26-0AA3
1PH7186-..B...	0.79	39.5	0.870	17.3	0.666 (5.89)	440 (970)	1XB7322	85	6SL3120-1TE28-5AA3
1PH7224-..B...	0.85	37.5	0.888	17.3	1.479 (13.1)	630 (1389)	1XB7322	85 ⁷⁾	6SL3120-1TE28-5AA3
1PH7226-..B...	0.85	50	0.900	17.3	1.930 (17.1)	750 (1654)	1XB7322	132	6SL3120-1TE31-3AA3
1PH7228-..B...	0.84	61.5	0.907	17.2	2.326 (20.6)	860 (1896)	1XB7322	132 ⁷⁾	6SL3120-1TE31-3AA3
1PH7284-..B...	0.86	61	0.932	20.3	4.2 (37.2)	1300 (2867)	1XB7712	200	6SL3120-1TE32-0AA3
1PH7286-..B...	0.86	80	0.939	20.3	5.2 (46.0)	1500 (3308)	1XB7712	200	6SL3120-1TE32-0AA3
1PH7288-..B...	0.86	102	0.941	20.3	6.3 (55.8)	1700 (3749)	1XB7712	260	6SL3320-1TE32-6AA3
1PH7284-..C...	0.86	90	0.950	34	4.2 (37.2)	1300 (2867)	1XB7712	260	6SL3320-1TE32-6AA3
1PH7286-..C...	0.84	135	0.954	34	5.2 (46.0)	1500 (3308)	1XB7712	310	6SL3320-1TE33-1AA3
1PH7288-..C...	0.84	170	0.956	34	6.3 (55.8)	1700 (3749)	1XB7712	380	6SL3320-1TE33-8AA3
1PH7184-..D...	0.81	42	0.928	45.8	0.503 (4.45)	370 (816)	1XB7322	85 ⁷⁾	6SL3120-1TE28-5AA3
1PH7186-..D...	0.79	59.5	0.930	45.7	0.666 (5.89)	440 (970)	1XB7322	132	6SL3120-1TE31-3AA3
1PH7224-..D...	0.80	78.5	0.942	45.6	1.479 (13.1)	630 (1389)	1XB7322	200	6SL3120-1TE32-0AA3
1PH7226-..D...	0.82	88.5	0.945	45.6	1.930 (17.1)	750 (1654)	1XB7422	200	6SL3120-1TE32-0AA3
1PH7228-..D...	0.84	99.5	0.947	45.6	2.326 (20.6)	860 (1896)	1XB7700	260	6SL3320-1TE32-6AA3
1PH7284-..D...	0.82	159	0.958	45.3	4.2 (37.2)	1300 (2867)	1XB7712	310 ⁷⁾	6SL3320-1TE33-1AA3
1PH7286-..D...	0.80	217	0.960	45.3	5.2 (46.0)	1500 (3308)	1XB7712	490	6SL3320-1TE35-0AA3
1PH7288-..D...	0.82	250	0.962	45.3	6.3 (55.8)	1700 (3749)	1XB7712	490 ⁷⁾	6SL3320-1TE35-0AA3
1PH7184-..F...	0.78	66	0.935	67.3	0.503 (4.45)	370 (816)	1XB7322	132	6SL3120-1TE31-3AA3
1PH7186-..F...	0.78	87	0.941	67.3	0.666 (5.89)	440 (970)	1XB7422	200	6SL3120-1TE32-0AA3
1PH7224-..U...	0.82	91	0.944	67.2	1.479 (13.1)	630 (1389)	1XB7422	200	6SL3120-1TE32-0AA3
1PH7226-..F...	0.82	119	0.948	67.2	1.930 (17.1)	750 (1654)	1XB7700	260	6SL3320-1TE32-6AA3
1PH7228-..F...	0.79	168	0.950	67.1	2.326 (20.6)	860 (1896)	1XB7700	380	6SL3320-1TE33-8AA3
1PH7284-..F...	0.86	162	0.962	67	4.2 (37.2)	1300 (2867)	1XB7712	490	6SL3320-1TE35-0AA3
1PH7286-..F...	0.87	182	0.964	67	5.2 (46.0)	1500 (3308)	1XB7712	490	6SL3320-1TE35-0AA3
1PH7288-..F...	0.87	232	0.965	67	6.3 (55.8)	1700 (3749)	1XB7712	745	6SL3320-1TE37-5AA3
1PH7184-..L...	0.80	77	0.934	97.4	0.503 (4.45)	370 (816)	1XB7322	200	6SL3120-1TE32-0AA3
1PH7186-..L...	0.78	107	0.936	97.3	0.666 (5.89)	440 (970)	1XB7422	210	6SL3320-1TE32-1AA3
1PH7224-..L...	0.84	115	0.946	97.3	1.479 (13.1)	630 (1389)	1XB7700	310	6SL3320-1TE33-1AA3
1PH7226-..L...	0.83	154	0.946	97.2	1.930 (17.1)	750 (1654)	1XB7700	380	6SL3320-1TE33-8AA3
1PH7228-..L...	0.82	188	0.954	97.2	2.326 (20.6)	860 (1896)	1XB7700	490	6SL3320-1TE35-0AA3

¹⁾ n_2 : Max. permissible thermal speed at constant power or speed which is at the voltage limit when $P = P_{\text{rated}}$.

²⁾ n_{S1} : Maximum permissible speed that is continuously permitted without speed duty cycles.

³⁾ n_{max} : Maximum speed that must not be exceeded.

⁴⁾ The speed is limited to lower values in some cases. The following restriction applies: Maximum output frequency $< 5 \times$ motor rated frequency.

⁵⁾ Speed is reduced with increased radial forces, see selection guides.

⁶⁾ The rated pulse frequencies must be taken into account. The rated motor data is valid for 4 kHz or 2 kHz.

⁷⁾ The rated output current of the Motor Module is lower than the motor rated current.

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors

Forced ventilation, IP55 degree of protection

Selection and ordering data

Rated speed	Shaft height	Rated power	Rated torque	Rated current	Rated voltage	Speed during field weakening ¹⁾	Continuous speed, max. ²⁾	Speed, max. ³⁾	1PH7 asynchronous motor Forced ventilation	
n_{rated}	SH	P_{rated}	M_{rated}	I_{rated}	U_{rated}	n_2	n_{S1}	n_{max}		Order code
rpm		kW (HP)	Nm (lb _f -ft)	A	V	rpm	rpm	rpm	Order No.	
Line voltage 690 V 3 AC, Active Line Module										
500	280	77 (103)	1471 (1085)	80	690	1700	2200	3300 ⁴⁾	1PH7284-■ ■ B ■ ■ - 0 ... -Z	C30
		96 (128)	1834 (1353)	101	690	1800	2200	3300 ⁴⁾	1PH7286-■ ■ B ■ ■ - 0 ... -Z	C30
		125 (168)	2388 (1761)	130	690	1900	2200	3300 ⁴⁾	1PH7288-■ ■ B ■ ■ - 0 ... -Z	C30
800	280	115 (154)	1373 (1013)	120	690	2200	2200	3300	1PH7284-■ ■ C ■ ■ - 0 ... -Z	C30
		145 (194)	1731 (1277)	160	665	2200	2200	3300	1PH7286-■ ■ C ■ ■ - 0 ... -Z	C30
		185 (248)	2208 (1629)	210	640	2200	2200	3300	1PH7288-■ ■ C ■ ■ - 0 ... -Z	C30
1150	280	164 (220)	1362 (1005)	176	690	2200	2200	3300	1PH7284-■ ■ D ■ ■ - 0 ... -Z	C30
		203 (272)	1686 (1244)	233	655	2200	2200	3300	1PH7286-■ ■ D ■ ■ - 0 ... -Z	C30
		251 (337)	2084 (1537)	280	665	2200	2200	3300	1PH7288-■ ■ D ■ ■ - 0 ... -Z	C30
1750	280	217 (291)	1184 (873)	221	690	2200	2200	3300	1PH7284-■ ■ F ■ ■ - 0 ... -Z	C30
		261 (350)	1424 (1050)	262	690	2200	2200	3300	1PH7286-■ ■ F ■ ■ - 0 ... -Z	C30
		329 (441)	1795 (1324)	330	690	2200	2200	3300	1PH7288-■ ■ F ■ ■ - 0 ... -Z	C30

For versions, see Order No.
supplement and options on
page 5/74.

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

Motor type (repeated)	Power factor	Magne- tizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	Terminal box	SINAMICS S120 Motor Module	
								Rated output current ⁶⁾	For additional versions and components see chapter SINAMICS S120 drive system Order No.
								I_{rated} A	
	$\cos \varphi$	I_{μ} A	η_{rated}	f_{rated} Hz	J kgm ² (lb _F -in-s ²)	kg (lb)	Type		
1PH7284-..B...	0.87	34	0.923	17	4.2 (37.2)	1300 (2867)	1XB7712	85 ⁷⁾	6SL3320-1TG28-5AA3
1PH7286-..B...	0.86	45	0.927	17	5.2 (46.0)	1500 (3308)	1XB7712	120	6SL3320-1TG31-2AA3
1PH7288-..B...	0.86	57	0.930	17	6.3 (55.8)	1700 (3749)	1XB7712	150	6SL3320-1TG31-5AA3
1PH7284-..C...	0.85	55	0.943	27	4.2 (37.2)	1300 (2867)	1XB7712	150	6SL3320-1TG31-5AA3
1PH7286-..C...	0.84	80	0.947	27	5.2 (46.0)	1500 (3308)	1XB7712	175	6SL3320-1TG31-8AA3
1PH7288-..C...	0.84	100	0.950	27	6.3 (55.8)	1700 (3749)	1XB7712	260	6SL3320-1TG32-6AA3
1PH7284-..D...	0.81	91	0.955	38.6	4.2 (37.2)	1300 (2867)	1XB7712	215	6SL3320-1TG32-2AA3
1PH7286-..D...	0.80	125	0.957	38.6	5.2 (46.0)	1500 (3308)	1XB7712	260	6SL3320-1TG32-6AA3
1PH7288-..D...	0.81	145	0.959	38.6	6.3 (55.8)	1700 (3749)	1XB7712	330	6SL3320-1TG33-3AA3
1PH7284-..F...	0.86	94	0.961	58.7	4.2 (37.2)	1300 (2867)	1XB7712	260	6SL3320-1TG32-6AA3
1PH7286-..F...	0.87	105	0.963	58.7	5.2 (46.0)	1500 (3308)	1XB7712	330	6SL3320-1TG33-3AA3
1PH7288-..F...	0.86	134	0.964	58.7	6.3 (55.8)	1700 (3749)	1XB7712	410	6SL3320-1TG34-1AA3

¹⁾ n_2 : Max. permissible thermal speed at constant power or speed which is at the voltage limit when $P = P_{rated}$.

²⁾ n_{S1} : Maximum permissible speed that is continuously permitted without speed duty cycles.

³⁾ n_{max} : Maximum speed that must not be exceeded.

⁴⁾ The speed is limited to lower values in some cases. The following restriction applies: Maximum output frequency < 5 × motor rated frequency.

⁵⁾ Speed is reduced with increased radial forces, see selection guides.

⁶⁾ The rated pulse frequencies must be taken into account: The rated motor data is valid for 4 kHz or 2 kHz.

⁷⁾ The rated output current of the Motor Module is lower than the rated motor current at 2 kHz.

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors

Forced ventilation, IP55 degree of protection

Order No. supplements for 1PH718/1PH722 motors

Data position of the Order No.								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Shaft height 180								1	P	H	7	1	8	.	-	.	■	.	■	■	-	■	■	■	■	-	Z
Shaft height 225								1	P	H	7	2	2	.													
Overall length ¹⁾															.												
Fan																											
External fan, PG cable gland in terminal box															2												
Without external fan, for pipe connection, PG cable gland in terminal box															6												
External fan, metric cable gland in terminal box															7												
Without external fan, for pipe connection, metric cable gland in terminal box															8												
Encoder systems for motors <u>without</u> DRIVE-CLiQ interface																											
Without encoder																	A										
Absolute encoder 2048 S/R, 4096 revolutions, multi-turn (encoder AM2048S/R)																	E										
Incremental encoder HTL 1024 S/R (encoder HTL1024S/R)																		H									
Incremental encoder HTL 2048 S/R (encoder HTL2048S/R)																		J									
Incremental encoder sin/cos 1 V _{pp} 2048 S/R with C and D tracks (encoder IC2048S/R)																		M									
Incremental encoder sin/cos 1 V _{pp} 2048 S/R without C and D tracks (encoder IN2048S/R)																		N									
Encoder systems for motors <u>with</u> DRIVE-CLiQ interface																											
Absolute encoder 22 bit (resolution 4194304, internal 2048 S/R) + 12 bit multi-turn (traversing range 4096 revolutions) (encoder AM22DQ)																		F									
Incremental encoder 22 bit (resolution 4194304, internal 2048 S/R) + commutation position 11 bit (encoder IC22DQ)																			D								
Incremental encoder 22 bit without commutation position (encoder IN22DQ)																			Q								
Rated speeds at 380 V to 480 V 3 AC (winding design)																											
400 rpm/500 rpm																		B									
1000 rpm/1150 rpm/1350 rpm																			D								
1500 rpm/1750 rpm/2000 rpm																				F							
1500 rpm/1750 rpm/2000 rpm (for 1PH7224 only)																				U							
2500 rpm/2900 rpm																				L							
Cable connection (view of DE)																											
Terminal box		Cable entry																									
Top		Right																	0								
Top		DE																	1								
Top		NDE																	2								
Top		Left																	3								
Type of construction																											
IM B3																			0								
IM B3		Hoisting system for different types of construction (IM B6, IM B7, IM B8, IM V5, IM V6)																	1								
IM B35		1PH7184 with A400 flange 1PH7186 with A450 flange 1PH722 with A550 flange																	3								
IM B35		1PH7184 with A450 flange																	4								
IM B35		1PH7184 with A400 flange 1PH7186 with A450 flange 1PH722 with A550 flange Hoisting concept for different types of construction (IM V15, IM V36)																	5								
IM B35		1PH7184 with A450 flange Hoisting system for different types of construction (IM V15, IM V36)																	6								

For 13th to 16th data position of the Order No., see page 5/73.

¹⁾ Not selectable. Determined by the choice of rated power.

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

Order No. supplements for 1PH718/1PH722 motors (continued)

Data position of the Order No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Shaft height 180	1	P	H	7	1	8	.	-	.	■	.	■	■	-	■	Z
Shaft height 225	1	P	H	7	2	2	.									
Holding brake with emergency stop function (suitable for coupling output in type of construction IM B3) ¹⁾																
Without brake													0			
With brake													2			
With brake													4			
Bearing version	Vibration magnitude acc. to Siemens/EN 60034-14²⁾												Shaft and flange accuracy²⁾			
Coupling													R/A		N	A
Coupling													R/A		R	B
Coupling													S/A		R	C
Coupling													SR/A		R	D
Belt													R/A		N	E
Belt													R/A		R	F
Increased cantilever forces													R/A		N	G
Increased cantilever forces													R/A		R	H
Increased maximum speed ⁵⁾													S/A		R	J
Shaft extension DE	Balancing												Direction of air flow (fan)			
Fitted key													Half-key		DE → NDE	A
Fitted key													Half-key		NDE → DE ³⁾	B
Fitted key													Full-key		DE → NDE	C
Fitted key													Full-key		NDE → DE ³⁾	D
Plain shaft													-		DE → NDE	J
Plain shaft													-		NDE → DE ³⁾	K
Seal	Paint finish															
-													Primed			0
Flange and shaft sealing ring ⁴⁾													Primed			2
-													Anthracite RAL 7016			3
Flange and shaft sealing ring ⁴⁾													Anthracite RAL 7016			5
-													Special paint finish in anthracite RAL 7016			6
Flange and shaft sealing ring ⁴⁾													Special paint finish in anthracite RAL 7016			8
Special version (order codes are required for options)																- Z

¹⁾ Version with holding brake possible with:
12th data position 0
14th data position A
15th data position A or B
16th data position 0, 3 or 6

²⁾ For definition see 1PH7 Configuration Manual.

³⁾ Preferred direction of air flow in a polluted environment.

⁴⁾ Only appropriate if oil spray or oil vapor is occasionally deposited on the sealing ring. A sealing ring is not possible for type of construction IM B3 (IM V5, IM V6) or version with increased maximum speed, version with belt or increased cantilever forces.

⁵⁾ 1PH718: $n_{\max} = 7000$ rpm
1PH7224: $n_{\max} = 5500$ rpm
Version possible for coupling output: 16th data position 0, 3 or 6.

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors

Forced ventilation, IP55 degree of protection

Order No. supplements for 1PH728 motors

Data position of the Order No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
Shaft height 280		1	P	H	7	2	8	.	-	.	■	.	■	■	-	0	■	■	■	-	Z	
Overall length ¹⁾												.										
Fans ²⁾	Mounting	Direction of air flow																				
External fan	NDE top	NDE → DE										0										
External fan	NDE right	NDE → DE										1										
External fan	NDE left	NDE → DE										2										
External fan	DE top	DE → NDE										3										
External fan	DE right	DE → NDE										4										
External fan	DE left	DE → NDE										5										
Without external fan	NDE right for single pipe connection											6										
Encoder systems for motors without DRIVE-CLiQ interface																						
Without encoder												A										
Absolute encoder 2048 S/R, 4096 revolutions, multi-turn (encoder AM2048S/R)												E										
Incremental encoder HTL 1024 S/R (encoder HTL1024S/R)												H										
Incremental encoder HTL 2048 S/R (encoder HTL2048S/R)												J										
Incremental encoder sin/cos 1 V _{pp} 2048 S/R with C and D tracks (encoder IC2048S/R)												M										
Incremental encoder sin/cos 1 V _{pp} 2048 S/R without C and D tracks (encoder IN2048S/R)												N										
Encoder systems for motors with DRIVE-CLiQ interface																						
Absolute encoder 22 bit (resolution 4194304, internal 2048 S/R) + 12 bit multi-turn (traversing range 4096 revolutions) (encoder AM22DQ)												F										
Incremental encoder 22 bit (resolution 4194304, internal 2048 S/R) + commutation position 11 bit (encoder IC22DQ)												D										
Incremental encoder 22 bit without commutation position (encoder IN22DQ)												Q										
Rated speeds at 380 V to 480 V 3 AC (winding design)																						
500 rpm/600 rpm												B										
800 rpm/1000 rpm												C										
1150 rpm/1350 rpm												D										
1750 rpm/2000 rpm												F										
Rated speeds at 690 V 3 AC (winding design)																						
500 rpm	Order code C30 required											B								-	Z	
800 rpm	Order code C30 required											C								-	Z	
1150 rpm	Order code C30 required											D								-	Z	
1750 rpm	Order code C30 required											F								-	Z	
Cable connection (view of DE)																						
Terminal box	Cable entry	Signal connection																				
NDE right	Bottom	DE											0									
NDE left	Bottom	DE											1									
NDE top	Right	DE											2									
DE top	Right	NDE											5									

For 12th to 16th data position of the Order No., see page 5/75.

¹⁾ Not selectable. Determined by the choice of rated power.

²⁾ See selection guides.

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection
Order No. supplements for 1PH728 motors (continued)

Data position of the Order No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
Shaft height 280		1	P	H	7	2	8	.	-	.	■	.	■	■	-	0	■	■	■	-	Z	
Type of construction ¹⁾														0								
IM B3														1								
IM V5	Can be subsequently modified to IM V6.													3								
IM B35	With A660 flange													5								
IM V15	With A660 flange Can be subsequently modified to IM V35.																					
Bearing version		Vibration magnitude acc. to Siemens/EN 60034-14 ²⁾												Shaft and flange accuracy ²⁾								
Coupling		A												N		A						
Coupling		R/A												R		B						
Increased cantilever forces		A												N		E						
Increased cantilever forces		R/A												R		F						
Shaft extension DE		Balancing																				
Fitted key		Half-key												A								
Fitted key		Full-key												C								
Plain shaft		-												J								
Paint finish																						
Primed														0								
Anthracite RAL 7016														3								
Special paint finish in anthracite RAL 7016														6								
Special version (order codes are required for options)														-				Z				

¹⁾ See technical definitions for AC motors in chapter Servomotors.

²⁾ For definition, see 1PH7 Configuration Manual

Main motors

Asynchronous and synchronous motors for SINAMICS S120

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

Order No. supplements for 1PH728/1PL628 motors

Permissible combinations of mechanical variants – External fan, terminal box, type of construction and drive type

1PH728/1PL628 motors
Shaft height 280

Data position of

Order No. 8. 9. 10. 11. 12. 13. 14. 15. 16.

1PH728 - ■ ■ ■ ■ ■ ■ ■ ■
1PL628 - ■ ■ ■ ■ ■ ■ ■ ■

Permissible combinations of mechanical designs

External fan

8th data position of the Order No.

1PH728 - ■ ■ ■ ■ ■ ■ ■ ■
1PL628 - ■ ■ ■ ■ ■ ■ ■ ■

Order No. supplement

	0	1	2	3	4	5	6	
	NDE top NDE → DE	NDE right NDE → DE	NDE left NDE → DE	DE top DE → NDE	DE right DE → NDE	DE left DE → NDE	Single pipe connection NDE right (can be modified subsequently to NDE left)	
1P . . 28 . - 0 - Type of construction IM B3 1PL628 . - 0 -								
1PH728 . - 1 - Type of construction IM V5 1PL628 . - 1 - (can be modified subsequently to IM V6)								
1PH728 . - 3 - Type of construction IM B35 1PL628 . - 3 -								
1PH728 . - 5 - Type IM V15 1PL628 . - 5 - (can be modified subsequently to IM V35)								
Order codes for options								
G14 With air filter								
K08 Encoder connector mounted opposite								
K55 Cable entry plate, terminal box, customer-specific ¹⁾								
K83 Terminal box rotated through +90 degrees								
K84 Terminal box rotated through -90 degrees								
K85 Terminal box rotated through 180 degrees								
K16 Second standard shaft extension (only possible without encoder)								
Y55 Non-standard shaft extension DE								
M83 Additional thread for a setting screw on motor feet								

Standard design

Released supplementary versions

¹⁾ Plain text is required.

1PH7 asynchronous motors
Forced ventilation, IP55 degree of protection

5