1PL6 motors
Forced ventilation

Selection and ordering data

Rated speed n_{rated} rpm	Shaft height SH	Rated power P_{rated} kW (HP)	Rated torque M_{rated} Nm (lb_f-ft)	Rated current I_{rated} A	Rated voltage V_{rated} V	Speed during field weakening [1] n_2 rpm	Continuous speed, max. [2] n_{S1} rpm	Speed, max. [3] n_{max} rpm	1PL6 asynchronous motor Order No.
400 V 3 AC line voltage, Servo Control									
400	180	20.5 (27.5)	489 (361)	58	290	1500	3500 [4)5)]	5000 [5)]	**1PL6184-■■B■■-0 . . .**
		30.5 (40.9)	728 (537)	87	290	1600	3500 [4)5)]	5000 [5)]	**1PL6186-■■B■■-0 . . .**
	225	40 (53.6)	955 (704)	105	296	1400	3100 [4)5)]	4500 [5)]	**1PL6224-■■B■■-0 . . .**
		57 (76.4)	1361 (1004)	145	305	1400	3100 [4)5)]	4500 [5)]	**1PL6226-■■B■■-0 . . .**
		72 (96.6)	1719 (1268)	181	305	1300	3100 [4)5)]	4500 [4)5)]	**1PL6228-■■B■■-0 . . .**
1000	180	57 (76.4)	544 (401)	122	345	2100	3500 [4)]	5000	**1PL6184-■■D■■-0 . . .**
		74 (99.2)	707 (522)	157	345	2400	3500 [4)]	5000	**1PL6186-■■D■■-0 . . .**
	225	105 (141)	1003 (740)	220	345	2500	3100 [4)]	4500	**1PL6224-■■D■■-0 . . .**
		135 (181)	1289 (951)	278	345	2200	3100 [4)]	4500	**1PL6226-■■D■■-0 . . .**
		165 (221)	1576 (1163)	331	348	2200	3100 [4)]	4500 [4)]	**1PL6228-■■D■■-0 . . .**
1500	180	76 (102)	484 (357)	165	345	4000	3500 [4)]	5000	**1PL6184-■■F■■-0 . . .**
		108 (145)	688 (508)	233	340	4000	3500 [4)]	5000	**1PL6186-■■F■■-0 . . .**
	225	142 (190)	904 (667)	292	345	2900	3100 [4)]	4500	**1PL6224-■■F■■-0 . . .**
		175 (235)	1114 (822)	356	345	2900	3100 [4)]	4500	**1PL6226-■■F■■-0 . . .**
		230 (308)	1465 (1081)	468	345	2900	3100 [4)]	4500 [4)]	**1PL6228-■■F■■-0 . . .**
2500	180	100 (134)	382 (282)	208	345	5000	3500 [4)]	5000	**1PL6184-■■L■■-0 . . .**
		130 (174)	497 (367)	275	340	5000	3500 [4)]	5000	**1PL6186-■■L■■-0 . . .**
	225	178 (239)	680 (502)	358	345	3500	3100 [4)]	4500	**1PL6224-■■L■■-0 . . .**
		235 (315)	698 (515)	476	340	3500	3100 [4)]	4500	**1PL6226-■■L■■-0 . . .**
		265 (355)	1013 (747)	535	345	3500	3100 [4)]	4500 [4)]	**1PL6228-■■L■■-0 . . .**

Fans:	External fan unit, heavy-gauge threaded cable entry in terminal box		**4**
	Without external fan unit, for pipe connection, heavy-gauge threaded cable entry in terminal box		**6**
	External fan unit, metric cable entry in terminal box		**7**
	Without external fan unit, for pipe connection, metric cable entry in terminal box		**8**
Encoder systems for motors without DRIVE-CLiQ interface:	Without encoder		**A**
	Absolute encoder EnDat 2048 S/R		**E**
	Incremental encoder HTL 1024 S/R		**H**
	Incremental encoder HTL 2048 S/R		**J**
	Incremental encoder sin/cos 1 V_{pp} with C and D tracks		**M**
	Incremental encoder sin/cos 1 V_{pp} without C and D tracks		**N**
	2-pole resolver		**R**
Encoder systems for motors with DRIVE-CLiQ interface:	22 bit absolute encoder single-turn + 12 bit multi-turn		**F**
	22 bit incremental encoder with 11 bit commutation position		**D**
	22 bit incremental encoder		**Q**
	14 bit resolver		**P**
Terminal box/ cable entry (view DE):	Top/from right		**0**
	Top/from DE		**1**
	Top/from NDE		**2**
	Top/from left		**3**
	Radial ventilation for SH 225 [6)]		**5**
Type:	IM B3		**0**
	IM B3	Hoisting system for different types (IM B6, IM B7, IM B8, IM V5, IM V6)	**1**
	IM B35 (SH 180: with flange A 450, SH 225: with flange A 550)		**3**
	IM B35 (SH 180: with flange A 450, SH 225: with flange A 550)	Hoisting system for different types (IM V15, IM V35)	**5**

Selection and ordering data

Power factor	Magnetizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	1PL6 asynchronous motor	SINAMICS S120 Motor Module	
							Rated output current	
	I_μ	η_{rated}	f_{rated}	J			I_{rated}	
cos φ	A		Hz	kgm² (lb$_f$-in-s²)	kg (lb)	Order No.	A	Order No.
400 V 3 AC line voltage, Servo Control								
0.84	33.4	0.820	14.2	0.503 (4.45)	370 (816)	**1PL6184- . . B . . - 0 ■ ■ ■**	60	**6SL3120-1TE26-0AA3**
0.84	48.6	0.828	14.1	0.666 (5.89)	440 (970)	**1PL6186- . . B . . - 0 ■ ■ ■**	85 [7]	**6SL3120-1TE28-5AA3**
0.86	45.8	0.864	14	1.479 (13.1)	630 (1389)	**1PL6224- . . B . . - 0 ■ ■ ■**	132	**6SL3120-1TE31-3AA3**
0.85	67	0.868	14	1.930 (17.1)	750 (1654)	**1PL6226- . . B . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.86	77	0.871	14.1	2.326 (20.6)	860 (1896)	**1PL6228- . . B . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.87	45	0.897	34.4	0.503 (4.45)	370 (816)	**1PL6184- . . D . . - 0 ■ ■ ■**	132	**6SL3120-1TE31-3AA3**
0.86	61	0.907	34.3	0.666 (5.89)	440 (970)	**1PL6186- . . D . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.86	86	0.927	34.5	1.479 (13.1)	630 (1389)	**1PL6224- . . D . . - 0 ■ ■ ■**	210 [7]	**6SL3320-1TE32-1AA0**
0.88	90	0.927	31.1	1.930 (17.1)	750 (1654)	**1PL6226- . . D . . - 0 ■ ■ ■**	310	**6SL3320-1TE33-1AA0**
0.89	103	0.928	34.2	2.326 (20.6)	860 (1896)	**1PL6228- . . D . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.84	70	0.924	50.9	0.503 (4.45)	370 (816)	**1PL6184- . . F . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.85	91	0.930	50.9	0.666 (5.89)	440 (970)	**1PL6186- . . F . . - 0 ■ ■ ■**	260	**6SL3320-1TE32-1AA0**
0.87	91	0.940	50.9	1.479 (13.1)	630 (1389)	**1PL6224- . . F . . - 0 ■ ■ ■**	310	**6SL3320-1TE33-1AA0**
0.87	125	0.944	50.7	1.930 (17.1)	750 (1654)	**1PL6226- . . F . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.86	177	0.947	50.7	2.326 (20.6)	860 (1896)	**1PL6228- . . F . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.86	80	0.936	84.2	0.503 (4.45)	370 (816)	**1PL6184- . . L . . - 0 ■ ■ ■**	210	**6SL3320-1TE32-1AA0**
0.85	113	0.943	84.1	0.666 (5.89)	440 (970)	**1PL6186- . . L . . - 0 ■ ■ ■**	310	**6SL3320-1TE33-1AA0**
0.87	119	0.950	84.1	1.479 (13.1)	630 (1389)	**1PL6224- . . L . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.88	157	0.953	84	1.930 (17.1)	750 (1654)	**1PL6226- . . L . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.87	189	0.952	84	2.326 (20.6)	860 (1896)	**1PL6228- . . L . . - 0 ■ ■ ■**	605	**6SL3320-1TE36-1AA0**

Output type:	**Vibrat. magnitude:**	**Shaft and flange accuracy:**	
Coupling	Grade R	Tolerance N	**A**
Coupling	Grade R	Tolerance R	**B**
Coupling	Grade S	Tolerance R	**C**
Coupling	Grade SR	Tolerance R	**D**
Belt	Grade R	Tolerance N	**E**
Belt	Grade R	Tolerance R	**F**
Increased cantilever forces	Grade R	Tolerance N	**G**
Increased cantilever forces	Grade R	Tolerance R	**H**

Shaft extension (DE):	**Balancing:**	**Direction of air flow (fan):**	
Fitted key	Half-key	DE → NDE	**A**
Fitted key	Half-key	NDE → DE [8]	**B**
Fitted key	Full-key	DE → NDE	**C**
Fitted key	Full-key	NDE → DE [8]	**D**
Plain shaft	–	DE → NDE	**J**
Plain shaft	–	NDE → DE [8]	**K**

Paint finish:	
Primed	**0**
Anthracite RAL 7016, standard paint finish	**3**
Anthracite RAL 7016, special paint finish	**6**

Special versions:	Specify supplementary order code and plain text if applicable (see Options).	**–Z**

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

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

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

4) The speed needs to be reduced for increased cantilever forces, see selection guides.

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

6) Digit "5" for SH 225: Radial ventilation, for possible versions see table "Permissible combinations of mechanical designs", page 5/48.

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

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

1PL6 motors
Forced ventilation

Selection and ordering data

Rated speed	Shaft height SH	Rated power	Rated torque	Rated current	Rated voltage	Speed during field weakening [1]	Continuous speed, max. [2]	Speed, max. [3]	1PL6 asynchronous motor
n_{rated} rpm		P_{rated} kW (HP)	M_{rated} Nm (lb_f-ft)	I_{rated} A	V_{rated} V	n_2 rpm	n_{S1} rpm	n_{max} rpm	Order No.
400 V 3 AC line voltage, Vector Control									
400	180	24.5 (32.9)	585 (432)	69	300	1700	3500 [4)5)]	5000 [5)]	**1PL6184-■■B■■-0...**
		31.5 (42.2)	752 (555)	90	290	1900	3500 [4)5)]	5000 [5)]	**1PL6186-■■B■■-0...**
	225	45 (60.4)	1074 (792)	117	300	1600	3100 [4)5)]	4500 [5)]	**1PL6224-■■B■■-0...**
		57 (76.4)	1361 (1004)	145	305	1800	3100 [4)5)]	4500 [5)]	**1PL6226-■■B■■-0...**
		72 (96.6)	1719 (1268)	181	305	1800	3100 [4)5)]	4500 [4)5)]	**1PL6228-■■B■■-0...**
1150	180	65 (87.2)	540 (398)	121	400	2500	3500 [4)]	5000	**1PL6184-■■D■■-0...**
		85 (114)	706 (521)	158	400	2700	3500 [4)]	5000	**1PL6186-■■D■■-0...**
	225	120 (161)	997 (735)	218	400	2800	3100 [4)]	4500	**1PL6224-■■D■■-0...**
		155 (208)	1287 (949)	275	400	2600	3100 [4)]	4500	**1PL6226-■■D■■-0...**
		190 (255)	1578 (1164)	334	400	2500	3100 [4)]	4500 [4)]	**1PL6228-■■D■■-0...**
1750	180	89 (119)	486 (359)	166	400	4500	3500 [4)]	5000	**1PL6184-■■F■■-0...**
		125 (168)	682 (503)	231	400	4500	3500 [4)]	5000	**1PL6186-■■F■■-0...**
	225	165 (221)	900 (664)	292	400	2900	3100 [4)]	4500	**1PL6224-■■F■■-0...**
		200 (268)	1091 (805)	350	400	2900	3100 [4)]	4500	**1PL6226-■■F■■-0...**
		265 (355)	1446 (1067)	470	400	2900	3100 [4)]	4500 [4)]	**1PL6228-■■F■■-0...**
2900	180	113 (152)	372 (274)	209	400	5000	3500 [4)]	5000	**1PL6184-■■L■■-0...**
		150 (201)	494 (364)	280	390	5000	3500 [4)]	5000	**1PL6186-■■L■■-0...**
	225	205 (275)	675 (498)	365	400	3500	3100 [4)]	4500	**1PL6224-■■L■■-0...**
		270 (362)	889 (656)	470	400	3500	3100 [4)]	4500	**1PL6226-■■L■■-0...**
		300 (402)	988 (729)	530	400	3500	3100 [4)]	4500 [4)]	**1PL6228-■■L■■-0...**

Fans:	External fan unit, heavy-gauge threaded cable entry in terminal box	**4**
	Without external fan unit, for pipe connection, heavy-gauge threaded cable entry in terminal box	**6**
	External fan unit, metric cable entry in terminal box	**7**
	Without external fan unit, for pipe connection, metric cable entry in terminal box	**8**
Encoder systems for motors without DRIVE-CLiQ interface:	Without encoder	**A**
	Absolute encoder EnDat 2048 S/R	**E**
	Incremental encoder HTL 1024 S/R	**H**
	Incremental encoder HTL 2048 S/R	**J**
	Incremental encoder sin/cos 1 V_{pp} with C and D tracks	**M**
	Incremental encoder sin/cos 1 V_{pp} without C and D tracks	**N**
	2-pole resolver	**R**
Encoder systems for motors with DRIVE-CLiQ interface:	22 bit absolute encoder single-turn + 12 bit multi-turn	**F**
	22 bit incremental encoder with 11 bit commutation position	**D**
	22 bit incremental encoder	**Q**
	14 bit resolver	**P**
Terminal box/ cable entry (view DE):	Top/from right	**0**
	Top/from DE	**1**
	Top/from NDE	**2**
	Top/from left	**3**
	Radial ventilation for SH 225 [6)]	**5**
Type:	IM B3	**0**
	IM B3 — Hoisting system for different types (IM B6, IM B7, IM B8, IM V5, IM V6)	**1**
	IM B35 (SH 180: with flange A 450, SH 225: with flange A 550)	**3**
	IM B35 (SH 180: with flange A 450, SH 225: with flange A 550) — Hoisting system for different types (IM V15, IM V35)	**5**

Selection and ordering data

Power factor	Magnetizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	1PL6 asynchronous motor	SINAMICS S120 Motor Module	
							Rated output current	
	I_μ	η_{rated}	f_{rated}	J			I_{rated}	
cos φ	A		Hz	kgm² (lb$_f$-in-s²)	kg (lb)	Order No.	A	Order No.
400 V 3 AC line voltage, Vector Control								
0.86	33	0.800	14.4	0.503 (4.45)	370 (816)	**1PL6184- . . B . . - 0 ■ ■ ■**	85	**6SL3120-1TE28-5AA3**
0.85	47	0.814	14.3	0.666 (5.89)	440 (970)	**1PL6186- . . B . . - 0 ■ ■ ■**	85 [7]	**6SL3120-1TE28-5AA3**
0.87	45	0.844	14.2	1.479 (13.1)	630 (1389)	**1PL6224- . . B . . - 0 ■ ■ ■**	132	**6SL3120-1TE31-3AA3**
0.85	67	0.868	14.0	1.930 (17.1)	750 (1654)	**1PL6226- . . B . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.86	77	0.871	14.0	2.326 (20.6)	860 (1896)	**1PL6228- . . B . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.86	46	0.906	39.4	0.503 (4.45)	370 (816)	**1PL6184- . . D . . - 0 ■ ■ ■**	132	**6SL3120-1TE31-3AA3**
0.86	62	0.910	39.4	0.666 (5.89)	440 (970)	**1PL6186- . . D . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.85	86	0.930	39.1	1.479 (13.1)	630 (1389)	**1PL6224- . . D . . - 0 ■ ■ ■**	260	**6SL3320-1TE32-6AA0**
0.87	92	0.930	39.2	1.930 (17.1)	750 (1654)	**1PL6226- . . D . . - 0 ■ ■ ■**	310	**6SL3320-1TE33-1AA0**
0.88	102	0.931	39.2	2.326 (20.6)	860 (1896)	**1PL6228- . . D . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.84	68	0.921	59.3	0.503 (4.45)	370 (816)	**1PL6184- . . F . . - 0 ■ ■ ■**	200	**6SL3120-1TE32-0AA3**
0.84	92	0.935	59.3	0.666 (5.89)	440 (970)	**1PL6186- . . F . . - 0 ■ ■ ■**	260	**6SL3320-1TE32-6AA0**
0.87	90	0.942	59.2	1.479 (13.1)	630 (1389)	**1PL6224- . . F . . - 0 ■ ■ ■**	310	**6SL3320-1TE33-1AA0**
0.87	122	0.942	59.1	1.930 (17.1)	750 (1654)	**1PL6226- . . F . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.86	174	0.948	59.0	2.326 (20.6)	860 (1896)	**1PL6228- . . F . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.85	79	0.938	97.6	0.503 (4.45)	370 (816)	**1PL6184- . . L . . - 0 ■ ■ ■**	210	**6SL3320-1TE32-1AA0**
0.84	110	0.943	97.5	0.666 (5.89)	440 (970)	**1PL6186- . . L . . - 0 ■ ■ ■**	310	**6SL3320-1TE33-1AA0**
0.86	118	0.950	97.5	1.479 (13.1)	630 (1389)	**1PL6224- . . L . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.87	160	0.952	97.4	1.930 (17.1)	750 (1654)	**1PL6226- . . L . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.86	188	0.952	97.3	2.326 (20.6)	860 (1896)	**1PL6228- . . L . . - 0 ■ ■ ■**	605	**6SL3320-1TE36-1AA0**

Output type:	**Vibrat. magnitude:**	**Shaft and flange accuracy:**	
Coupling	Grade R	Tolerance N	**A**
Coupling	Grade R	Tolerance R	**B**
Coupling	Grade S	Tolerance R	**C**
Coupling	Grade SR	Tolerance R	**D**
Belt	Grade R	Tolerance N	**E**
Belt	Grade R	Tolerance R	**F**
Increased cantilever forces	Grade R	Tolerance N	**G**
Increased cantilever forces	Grade R	Tolerance R	**H**

Shaft extension (DE):	**Balancing:**	**Direction of air flow (fan):**	
Fitted key	Half-key	DE → NDE	**A**
Fitted key	Half-key	NDE → DE [8]	**B**
Fitted key	Full-key	DE → NDE	**C**
Fitted key	Full-key	NDE → DE [8]	**D**
Plain shaft	–	DE → NDE	**J**
Plain shaft	–	NDE → DE [8]	**K**

Paint finish:	
Primed	**0**
Anthracite RAL 7016, standard paint finish	**3**
Anthracite RAL 7016, special paint finish	**6**

Special versions:	Specify supplementary order code and plain text if applicable (see Options).	**–Z**

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

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

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

4) The speed is reduced for increased cantilever forces, see selection guides.

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

6) Digit "5" for SH 225: Radial ventilation, for possible versions see table "Permissible combinations of mechanical designs", page 5/48.

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

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

1PL6 motors
Forced ventilation

Selection and ordering data

Rated speed n_{rated} rpm	Shaft height SH	Rated power P_{rated} kW (HP)	Rated torque M_{rated} Nm (lb_f-ft)	Rated current I_{rated} A	Rated voltage V_{rated} V	Speed during field weakening [1] n_2 rpm	Continuous speed, max. [2] n_{S1} rpm	Speed, max. [3] n_{max} rpm	1PL6 asynchronous motor Order No.
400 V 3 AC line voltage, Vector Control									
800	280	195 (262)	2328 (1717)	335	400	1700	2200	3300	**1PL6284-■■C■■-0...**
		250 (335)	2984 (2201)	440	385	1900	2200	3300	**1PL6286-■■C■■-0...**
		310 (416)	3701 (2730)	570	370	2200	2200	3300	**1PL6288-■■C■■-0...**
1150	280	280 (375)	2325 (1715)	478	400	2200	2200	3300	**1PL6284-■■D■■-0...**
		355 (476)	2944 (2172)	637	380	2200	2200	3300	**1PL6286-■■D■■-0...**
		435 (583)	3607 (2688)	765	385	2200	2200	3300	**1PL6288-■■D■■-0...**
1750	280	370 (496)	2019 (1489)	616	400	2200	2200	3300	**1PL6284-■■F■■-0...**
		445 (597)	2429 (1792)	736	400	2200	2200	3300	**1PL6286-■■F■■-0...**
		560 (751)	3055 (2253)	924	400	2200	2200	3300	**1PL6288-■■F■■-0...**

Fans [4]:	External fan unit, NDE at top, air-flow direction NDE to DE	**0**
	External fan unit, NDE on right, air-flow direction NDE to DE	**1**
	External fan unit, NDE on left, air-flow direction NDE to DE	**2**
	External fan unit, DE at top, air-flow direction DE to NDE	**3**
	External fan unit, DE on right, air-flow direction DE to NDE	**4**
	External fan unit, DE on left, air-flow direction DE to NDE	**5**
	Without external fan unit, for single pipe connection at NDE on right	**6**
Encoder systems for motors without DRIVE-CLiQ interface:	Without encoder	**A**
	Absolute encoder EnDat 2048 S/R	**E**
	Incremental encoder HTL 1024 S/R	**H**
	Incremental encoder HTL 2048 S/R	**J**
	Incremental encoder sin/cos 1 V_{pp} with C and D tracks	**M**
	Incremental encoder sin/cos 1 V_{pp} without C and D tracks	**N**
	2-pole resolver	**R**
Encoder systems for motors with DRIVE-CLiQ interface:	22 bit absolute encoder single-turn + 12 bit multi-turn	**F**
	22 bit incremental encoder with 11 bit commutation position	**D**
	22 bit incremental encoder	**Q**
	14 bit resolver	**P**
Terminal box/ cable entry (view DE) [4]:	NDE on right/from below/encoder connector DE	**0**
	NDE on left/from below/encoder connector DE	**1**
	NDE at top/from right/encoder connector DE	**2**
	DE at top/from right/encoder connector NDE	**5**
Type [4]:	IM B3	**0**
	IM V5 (can be subsequently modified to IM V6)	**1**
	IM B35 (with flange A 660)	**3**
	IM V15 (with flange A 660; can be subsequently modified to IM V35)	**5**

Selection and ordering data

Power factor	Magnetizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	1PL6 asynchronous motor	SINAMICS S120 Motor Module	
							Rated output current	
	I_μ	η_{rated}	f_{rated}	J			I_{rated}	
cos φ	A		Hz	kgm² (lb$_f$-in-s²)	kg (lb)	Order No.	A	Order No.
400 V 3 AC line voltage, Vector Control								
0.90	95	0.929	27.3	4.2 (37.2)	1300 (2867)	**1PL6284- . . C . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.90	135	0.934	27.3	5.2 (46.0)	1500 (3308)	**1PL6286- . . C . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.90	170	0.939	27.3	6.3 (55.8)	1700 (3749)	**1PL6288- . . C . . - 0 ■ ■ ■**	605	**6SL3320-1TE36-1AA0**
0.89	156	0.950	38.9	4.2 (37.2)	1300 (2867)	**1PL6284- . . D . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.89	214	0.953	38.9	5.2 (46.0)	1500 (3308)	**1PL6286- . . D . . - 0 ■ ■ ■**	745	**6SL3320-1TE37-5AA0**
0.89	248	0.955	38.9	6.3 (55.8)	1700 (3749)	**1PL6288- . . D . . - 0 ■ ■ ■**	840	**6SL3320-1TE38-4AA0**
0.90	162	0.959	59.0	4.2 (37.2)	1300 (2867)	**1PL6284- . . F . . - 0 ■ ■ ■**	605 [5]	**6SL3320-1TE36-1AA0**
0.91	182	0.960	59.0	5.2 (46.0)	1500 (3308)	**1PL6286- . . F . . - 0 ■ ■ ■**	745	**6SL3320-1TE37-5AA0**
0.91	232	0.962	59.0	6.3 (55.8)	1700 (3749)	**1PL6288- . . F . . - 0 ■ ■ ■**	985	**6SL3320-1TE41-0AA0**

Output type [4]**:**	**Vibrat. magnitude:**	**Shaft and flange accuracy:**	
Coupling	Grade N	Tolerance N	**A**
Coupling	Grade R	Tolerance R	**B**
Belt/increased cantilever forces	Grade N	Tolerance N	**E**
Belt/increased cantilever forces	Grade R	Tolerance 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, standard paint finish			**3**
Anthracite RAL 7016, special paint finish			**6**
Special versions:	Specify supplementary order code and plain text if applicable (see Options).		**–Z**

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

[2] n_{S1}: Max. permissible speed that is continuously permitted without speed duty cycles.

[3] n_{max}: Maximum speed which must not be exceeded.

[4] See table "Permissible combinations of mechanical designs", page 5/48.

[5] The rated output current of the Motor Module is lower than the motor rated current.

1PL6 motors
Forced ventilation

Selection and ordering data

Rated speed n_{rated} rpm	Shaft height SH	Rated power P_{rated} kW (HP)	Rated torque M_{rated} Nm (lb_f-ft)	Rated current I_{rated} A	Rated voltage V_{rated} V	Speed during field weakening [1] n_2 rpm	Continuous speed, max. [2] n_{S1} rpm	Speed, max. [3] n_{max} rpm	1PL6 asynchronous motor Order No.
480 V 3 AC line voltage, Servo/Vector Control									
500	180	30 (40.2)	573 (423)	66	370	1900	3500 [4)5)]	5000 [5)]	**1PL6184-■■B■7-0...**
		40 (53.6)	764 (564)	91	355	2000	3500 [4)5)]	5000 [5)]	**1PL6186-■■B■■-0...**
	225	55 (73.8)	1050 (774)	114	370	1800	3100 [4)5)]	4500 [5)]	**1PL6224-■■B■■-0...**
		72 (96.6)	1375 (1014)	147	375	2000	3100 [4)5)]	4500 [5)]	**1PL6226-■■B■■-0...**
		90 (121)	1719 (1268)	180	380	1900	3100 [4)5)]	4500 [4)5)]	**1PL6228-■■B■■-0...**
1350	180	74 (99.2)	523 (386)	119	460	3000	3500 [4)]	5000	**1PL6184-■■D■■-0...**
		98 (131)	693 (511)	156	460	3100	3500 [4)]	5000	**1PL6186-■■D■■-0...**
	225	137 (184)	969 (715)	215	460	2900	3100 [4)]	4500	**1PL6224-■■D■■-0...**
		172 (231)	1217 (898)	265	460	2900	3100 [4)]	4500	**1PL6226-■■D■■-0...**
		218 (292)	1542 (1137)	332	460	2900	3100 [4)]	4500 [4)]	**1PL6228-■■D■■-0...**
2000	180	98 (131)	468 (345)	161	460	5000	3500 [4)]	5000	**1PL6184-■■F■■-0...**
		135 (181)	645 (476)	220	460	5000	3500 [4)]	5000	**1PL6186-■■F■■-0...**
	225	178 (239)	850 (627)	275	460	2900	3100 [4)]	4500	**1PL6224-■■F■■-0...**
		220 (295)	1050 (774)	342	460	2900	3100 [4)]	4500	**1PL6226-■■F■■-0...**
		288 (386)	1375 (1014)	450	460	2900	3100 [4)]	4500 [4)]	**1PL6228-■■F■■-0...**
2900	180	113 (152)	372 (274)	209	400	5000	3500 [4)]	5000	**1PL6184-■■L■■-0...**
		150 (201)	494 (364)	280	390	5000	3500 [4)]	5000	**1PL6186-■■L■■-0...**
	225	205 (275)	675 (498)	365	400	3500	3100 [4)]	4500	**1PL6224-■■L■■-0...**
		270 (362)	889 (656)	470	395	3500	3100 [4)]	4500	**1PL6226-■■L■■-0...**
		300 (402)	988 (729)	530	400	3500	3100 [4)]	4500 [4)]	**1PL6228-■■L■■-0...**

Fans:	External fan unit, heavy-gauge threaded cable entry in terminal box		**4**
	Without external fan unit, for pipe connection, heavy-gauge threaded cable entry in terminal box		**6**
	External fan unit, metric cable entry in terminal box		**7**
	Without external fan unit, for pipe connection, metric cable entry in terminal box		**8**
Encoder systems for motors without DRIVE-CLiQ interface:	Without encoder		**A**
	Absolute encoder EnDat 2048 S/R		**E**
	Incremental encoder HTL 1024 S/R		**H**
	Incremental encoder HTL 2048 S/R		**J**
	Incremental encoder sin/cos 1 V_{pp} with C and D tracks		**M**
	Incremental encoder sin/cos 1 V_{pp} without C and D tracks		**N**
	2-pole resolver		**R**
Encoder systems for motors with DRIVE-CLiQ interface:	22 bit absolute encoder single-turn + 12 bit multi-turn		**F**
	22 bit incremental encoder with 11 bit commutation position		**D**
	22 bit incremental encoder		**Q**
	14 bit resolver		**P**
Terminal box/ cable entry (view DE):	Top/from right		**0**
	Top/from DE		**1**
	Top/from NDE		**2**
	Top/from left		**3**
	Radial ventilation for SH 225 [6)]		**5**
Type:	IM B3		**0**
	IM B3	Hoisting system for different types (IM B6, IM B7, IM B8, IM V5, IM V6)	**1**
	IM B35 (SH 180: with flange A 450, SH 225: with flange A 550)		**3**
	IM B35 (SH 180: with flange A 450, SH 225: with flange A 550)	Hoisting system for different types (IM V15, IM V35)	**5**

Selection and ordering data

Power factor	Magnetizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	1PL6 asynchronous motor	SINAMICS S120 Motor Module	
							Rated output current	
	I_μ	η_{rated}	f_{rated}	J			I_{rated}	
cos φ	A		Hz	kgm² (lb$_f$-in-s²)	kg (lb)	Order No.	A	Order No.
480 V 3 AC line voltage, Servo/Vector Control								
0.84	34	0.844	17.6	0.503 (4.45)	370 (816)	**1PL6184-. . B . . -0■■■**	85	**6SL3120-1TE28-5AA3**
0.84	46	0.845	17.6	0.666 (5.89)	440 (970)	**1PL6186-. . B . . -0■■■**	132	**6SL3120-1TE31-3AA3**
0.86	46	0.875	17.5	1.479 (13.1)	630 (1389)	**1PL6224-. . B . . -0■■■**	132	**6SL3120-1TE31-3AA3**
0.85	66	0.887	17.4	1.930 (17.1)	750 (1654)	**1PL6226-. . B . . -0■■■**	200	**6SL3120-1TE32-0AA3**
0.85	79	0.894	17.4	2.326 (20.6)	860 (1896)	**1PL6228-. . B . . -0■■■**	200	**6SL3120-1TE32-0AA3**
0.86	44	0.918	46.1	0.503 (4.45)	370 (816)	**1PL6184-. . D . . -0■■■**	132	**6SL3120-1TE31-3AA3**
0.85	60	0.920	46.0	0.666 (5.89)	440 (970)	**1PL6186-. . D . . -0■■■**	200	**6SL3120-1TE32-0AA3**
0.85	82	0.940	45.8	1.479 (13.1)	630 (1389)	**1PL6224-. . D . . -0■■■**	210 [7]	**6SL3320-1TE32-1AA0**
0.87	88	0.940	45.8	1.930 (17.1)	750 (1654)	**1PL6226-. . D . . -0■■■**	260 [7]	**6SL3320-1TE32-6AA0**
0.88	100	0.938	45.8	2.326 (20.6)	860 (1896)	**1PL6228-. . D . . -0■■■**	380	**6SL3320-1TE33-8AA0**
0.83	70	0.934	67.5	0.503 (4.45)	370 (816)	**1PL6184-. . F . . -0■■■**	200	**6SL3120-1TE32-0AA3**
0.83	94	0.940	67.5	0.666 (5.89)	440 (970)	**1PL6186-. . F . . -0■■■**	260	**6SL3320-1TE32-6AA0**
0.86	91	0.944	67.5	1.479 (13.1)	630 (1389)	**1PL6224-. . F . . -0■■■**	310	**6SL3320-1TE33-1AA0**
0.86	124	0.948	67.5	1.930 (17.1)	750 (1654)	**1PL6226-. . F . . -0■■■**	380	**6SL3320-1TE33-8AA0**
0.85	176	0.948	67.3	2.326 (20.6)	860 (1896)	**1PL6228-. . F . . -0■■■**	490	**6SL3320-1TE35-0AA0**
0.85	79	0.938	97.6	0.503 (4.45)	370 (816)	**1PL6184-. . L . . -0■■■**	210	**6SL3320-1TE32-1AA0**
0.84	110	0.943	97.5	0.666 (5.89)	440 (970)	**1PL6186-. . L . . -0■■■**	310	**6SL3320-1TE33-1AA0**
0.86	118	0.950	97.5	1.479 (13.1)	630 (1389)	**1PL6224-. . L . . -0■■■**	380	**6SL3320-1TE33-8AA0**
0.87	160	0.952	97.4	1.930 (17.1)	750 (1654)	**1PL6226-. . L . . -0■■■**	490	**6SL3320-1TE35-0AA0**
0.86	188	0.952	97.3	2.326 (20.6)	860 (1896)	**1PL6228-. . L . . -0■■■**	605	**6SL3320-1TE36-1AA0**

Output type:	**Vibrat. magnitude:**	**Shaft and flange accuracy:**	
Coupling	Grade R	Tolerance N	**A**
Coupling	Grade R	Tolerance R	**B**
Coupling	Grade S	Tolerance R	**C**
Coupling	Grade SR	Tolerance R	**D**
Belt	Grade R	Tolerance N	**E**
Belt	Grade R	Tolerance R	**F**
Increased cantilever forces	Grade R	Tolerance N	**G**
Increased cantilever forces	Grade R	Tolerance R	**H**

Shaft extension (DE):	**Balancing:**	**Direction of air flow (fan):**	
Fitted key	Half-key	DE → NDE	**A**
Fitted key	Half-key	NDE → DE [8]	**B**
Fitted key	Full-key	DE → NDE	**C**
Fitted key	Full-key	NDE → DE [8]	**D**
Plain shaft	–	DE → NDE	**J**
Plain shaft	–	NDE → DE [8]	**K**

Paint finish:	
Primed	**0**
Anthracite RAL 7016, standard paint finish	**3**
Anthracite RAL 7016, special paint finish	**6**

Special versions:	Specify supplementary order code and plain text if applicable (see Options).	**–Z**

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

[2] n_{S1}: Max. permissible speed that is continuously permitted without speed duty cycles.

[3] n_{max}: Maximum speed which must not be exceeded.

[4] The speed is reduced for increased cantilever forces, see selection guides.

[5] The speed is limited to lower values in some cases. The following restriction applies: Max. output frequency < 5 × motor rated frequency.

[6] Digit "5" for SH 225: Radial ventilation, for possible versions see table "Permissible combinations of mechanical designs", page 5/48.

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

[8] Preferred direction of air flow in a polluted environment.

1PL6 motors
Forced ventilation

Selection and ordering data

Rated speed n_{rated} rpm	Shaft height SH	Rated power P_{rated} kW (HP)	Rated torque M_{rated} Nm (lb_f-ft)	Rated current I_{rated} A	Rated voltage V_{rated} V	Speed during field weakening [1] n_2 rpm	Continuous speed, max. [2] n_{S1} rpm	Speed, max. [3] n_{max} rpm	1PL6 asynchronous motor Order No.
480 V 3 AC line voltage, Servo/Vector Control									
1000	280	235 (315)	2244 (1655)	335	480	2200	2200	3300	**1PL6284-■■C■■-0 . . .**
		310 (416)	2961 (2184)	440	480	2200	2200	3300	**1PL6286-■■C■■-0 . . .**
		385 (516)	3677 (2712)	570	460	2200	2200	3300	**1PL6288-■■C■■-0 . . .**
1350	280	325 (436)	2299 (1696)	478	470	2200	2200	3300	**1PL6284-■■D■■-0 . . .**
		410 (550)	2901 (2140)	637	445	2200	2200	3300	**1PL6286-■■D■■-0 . . .**
		505 (677)	3573 (2635)	765	450	2200	2200	3300	**1PL6288-■■D■■-0 . . .**
2000	280	415 (557)	1981 (1461)	616	455	2200	2200	3300	**1PL6284-■■F■■-0 . . .**
		500 (671)	2387 (1761)	736	455	2200	2200	3300	**1PL6286-■■F■■-0 . . .**
		630 (845)	3009 (2219)	924	455	2200	2200	3300	**1PL6288-■■F■■-0 . . .**

Fans [4]:	External fan unit, NDE at top, air-flow direction NDE to DE	**0**
	External fan unit, NDE on right, air-flow direction NDE to DE	**1**
	External fan unit, NDE on left, air-flow direction NDE to DE	**2**
	External fan unit, DE at top, air-flow direction DE to NDE	**3**
	External fan unit, DE on right, air-flow direction DE to NDE	**4**
	External fan unit, DE on left, air-flow direction DE to NDE	**5**
	Without external fan unit, for single pipe connection at NDE on right	**6**
Encoder systems for motors without DRIVE-CLiQ interface:	Without encoder	**A**
	Absolute encoder EnDat 2048 S/R	**E**
	Incremental encoder HTL 1024 S/R	**H**
	Incremental encoder HTL 2048 S/R	**J**
	Incremental encoder sin/cos 1 V_{pp} with C and D tracks	**M**
	Incremental encoder sin/cos 1 V_{pp} without C and D tracks	**N**
	2-pole resolver	**R**
Encoder systems for motors with DRIVE-CLiQ interface:	22 bit absolute encoder single-turn + 12 bit multi-turn	**F**
	22 bit incremental encoder with 11 bit commutation position	**D**
	22 bit incremental encoder	**Q**
	14 bit resolver	**P**
Terminal box/ cable entry (view DE) [4]:	NDE on right/from below/encoder connector DE	**0**
	NDE on left/from below/encoder connector DE	**1**
	NDE at top/from right/encoder connector DE	**2**
	DE at top/from right/encoder connector NDE	**5**
Type [4]:	IM B3	**0**
	IM V5 (can be subsequently modified to IM V6)	**1**
	IM B35 (with flange A 660)	**3**
	IM V15 (with flange A 660; can be subsequently modified to IM V35)	**5**

Selection and ordering data

Power factor	Magnetizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	1PL6 asynchronous motor	SINAMICS S120 Motor Module	
							Rated output current	
	I_μ	η_{rated}	f_{rated}	J			I_{rated}	
cos φ	A		Hz	kgm² (lb$_f$-in-s²)	kg (lb)	Order No.	A	Order No.
480 V 3 AC line voltage, Servo/Vector Control								
0.90	90	0.939	34.0	4.2 (37.2)	1300 (2867)	**1PL6284- . . C . . - 0 ■ ■ ■**	380	**6SL3320-1TE33-8AA0**
0.90	135	0.945	34.0	5.2 (46.0)	1500 (3308)	**1PL6286- . . C . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.90	170	0.948	34.0	6.3 (55.8)	1700 (3749)	**1PL6288- . . C . . - 0 ■ ■ ■**	605	**6SL3320-1TE36-1AA0**
0.89	157	0.955	45.5	4.2 (37.2)	1300 (2867)	**1PL6284- . . D . . - 0 ■ ■ ■**	490	**6SL3320-1TE35-0AA0**
0.89	215	0.957	45.5	5.2 (46.0)	1500 (3308)	**1PL6286- . . D . . - 0 ■ ■ ■**	745	**6SL3320-1TE37-5AA0**
0.89	248	0.959	45.5	6.3 (55.8)	1700 (3749)	**1PL6288- . . D . . - 0 ■ ■ ■**	840	**6SL3320-1TE38-4AA0**
0.90	161	0.961	67.3	4.2 (37.2)	1300 (2867)	**1PL6284- . . F . . - 0 ■ ■ ■**	745	**6SL3320-1TE37-5AA0**
0.91	181	0.963	67.3	5.2 (46.0)	1500 (3308)	**1PL6286- . . F . . - 0 ■ ■ ■**	745	**6SL3320-1TE37-5AA0**
0.91	231	0.965	67.3	6.3 (55.8)	1700 (3749)	**1PL6288- . . F . . - 0 ■ ■ ■**	985	**6SL3320-1TE41-0AA0**

Output type [4]**:**	**Vibrat. magnitude:**	**Shaft and flange accuracy:**	
Coupling	Grade N	Tolerance N	**A**
Coupling	Grade R	Tolerance R	**B**
Belt/increased cantilever forces	Grade N	Tolerance N	**E**
Belt/increased cantilever forces	Grade R	Tolerance 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, standard paint finish			**3**
Anthracite RAL 7016, special paint finish			**6**
Special versions:	Specify supplementary order code and plain text if applicable (see Options).		**–Z**

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

[2] n_{S1}: Max. permissible speed that is continuously permitted without speed duty cycles.

[3] n_{max}: Maximum speed which must not be exceeded.

[4] See table "Permissible combinations of mechanical designs", page 5/51.

1PL6 motors
Forced ventilation

Selection and ordering data

Rated speed n_{rated} rpm	Shaft height SH	Rated power P_{rated} kW (HP)	Rated torque M_{rated} Nm (lb_f-ft)	Rated current I_{rated} A	Rated voltage V_{rated} V	Speed during field weakening [1] n_2 rpm	Continuous speed, max. [2] n_{S1} rpm	Speed, max. [3] n_{max} rpm	1PL6 asynchronous motor Order No.
690 V 3 AC line voltage, Servo/Vector Control									
800	280	185 (248)	2208 (1629)	185	690	2000	2200	3300	**1PL6284-■■C■■-0 . . .**
		240 (322)	2865 (2113)	250	665	2100	2200	3300	**1PL6286-■■C■■-0 . . .**
		300 (402)	3581 (2641)	320	640	2200	2200	3300	**1PL6288-■■C■■-0 . . .**
1150	280	272 (365)	2259 (1666)	270	690	2200	2200	3300	**1PL6284-■■D■■-0 . . .**
		344 (461)	2857 (2107)	359	655	2200	2200	3300	**1PL6286-■■D■■-0 . . .**
		422 (566)	3504 (2585)	431	665	2200	2200	3300	**1PL6288-■■D■■-0 . . .**
1750	280	359 (481)	1959 (1445)	347	690	2200	2200	3300	**1PL6284-■■F■■-0 . . .**
		432 (579)	2357 (1739)	415	690	2200	2200	3300	**1PL6286-■■F■■-0 . . .**
		543 (728)	2963 (2186)	520	690	2200	2200	3300	**1PL6288-■■F■■-0 . . .**

Fans [4]:	External fan unit, NDE top, air-flow direction NDE to DE	**0**
	External fan unit, NDE right, air-flow direction NDE to DE	**1**
	External fan unit, NDE left, air-flow direction NDE to DE	**2**
	External fan unit, DE top, air-flow direction DE to NDE	**3**
	External fan unit, DE right, air-flow direction DE to NDE	**4**
	External fan unit, DE left, air-flow direction DE to NDE	**5**
	Without external fan unit, for single pipe connection at NDE right	**6**
Encoder systems for motors without DRIVE-CLiQ interface:	Without encoder	**A**
	Absolute encoder EnDat 2048 S/R	**E**
	Incremental encoder HTL 1024 S/R	**H**
	Incremental encoder HTL 2048 S/R	**J**
	Incremental encoder sin/cos 1 V_{pp} with C and D track	**M**
	Incremental encoder sin/cos 1 V_{pp} without C and D track	**N**
	2-pole resolver	**R**
Encoder systems for motors with DRIVE-CLiQ interface:	22 bit absolute encoder single-turn + 12 bit multi-turn	**F**
	22 bit incremental encoder with 11 bit commutation position	**D**
	22 bit incremental encoder	**Q**
	14 bit resolver	**P**
Terminal box/ cable entry (view DE) [4]:	NDE right/from below/encoder connector DE	**0**
	NDE left/from below/encoder connector DE	**1**
	NDE top/from right/encoder connector DE	**2**
	DE top/from right/encoder connector NDE	**5**
Type [4]:	IM B3	**0**
	IM V5 (can be subsequently modified to IM V6)	**1**
	IM B35 (with flange A 660)	**3**
	IM V15 (with flange A 660, can be subsequently modified to IM V35)	**5**

Selection and ordering data

Power factor	Magnetizing current	Efficiency	Rated frequency	Moment of inertia	Weight, approx.	1PL6 asynchronous motor	SINAMICS S120 Motor Module	
							Rated output current	
	I_μ	η_{rated}	f_{rated}	J			I_{rated}	
cos φ	A		Hz	kgm² (lb$_f$-in-s²)	kg (lb)	Order No.	A	Order No.
690 V 3 AC line voltage, Servo/Vector Control								
0.90	55	0.928	27	4.2 (37.2)	1300 (2867)	**1PL6284- . . C . . - 0 ■ ■ ■**	215	**6SL3320-1T G32-2AA0**
0.90	80	0.934	27	5.2 (46.0)	1500 (3308)	**1PL6286- . . C . . - 0 ■ ■ ■**	260	**6SL3320-1T G32-6AA0**
0.90	100	0.938	27	6.3 (55.8)	1700 (3749)	**1PL6288- . . C . . - 0 ■ ■ ■**	330	**6SL3320-1T G33-3AA0**
0.89	89	0.949	38.9	4.2 (37.2)	1300 (2867)	**1PL6284- . . D . . - 0 ■ ■ ■**	330	**6SL3320-1T G33-3AA0**
0.89	123	0.953	38.9	5.2 (46.0)	1500 (3308)	**1PL6286- . . D . . - 0 ■ ■ ■**	410	**6SL3320-1T G34-1AA0**
0.89	143	0.955	38.9	6.3 (55.8)	1700 (3749)	**1PL6288- . . D . . - 0 ■ ■ ■**	465	**6SL3320-1T G34-7AA0**
0.90	93	0.958	59	4.2 (37.2)	1300 (2867)	**1PL6284- . . F . . - 0 ■ ■ ■**	410	**6SL3320-1T G34-1AA0**
0.91	105	0.960	59	5.2 (46.0)	1500 (3308)	**1PL6286- . . F . . - 0 ■ ■ ■**	410 [5]	**6SL3320-1T G34-1AA0**
0.91	133	0.962	59	6.3 (55.8)	1700 (3749)	**1PL6288- . . F . . - 0 ■ ■ ■**	575	**6SL3320-1T G35-8AA0**

Output type [4]**:**	**Vibrat. magnitude:**	**Shaft and flange accuracy:**	
Coupling	Grade N	Tolerance N	**A**
Coupling	Grade R	Tolerance R	**B**
Belt/increased cantilever forces	Grade N	Tolerance N	**E**
Belt/increased cantilever forces	Grade R	Tolerance 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, standard paint finish			**3**
Anthracite RAL 7016, special paint finish			**6**
Special versions:	Specify supplementary order code and plain text if applicable (see Options). **C30** absolutely essential		**–Z**

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

[2] n_{S1}: Max. permissible speed that is continuously permitted without speed duty cycles.

[3] n_{max}: Maximum speed which must not be exceeded.

[4] See table "Permissible combinations of mechanical designs", page 5/51.

[5] The rated output current of the Motor Module is lower than the motor rated current.

Permissible combinations of mechanical designs for 1PL6 motors, shaft height 225

Selection and ordering data – supplements

Permissible combinations of mechanical designs, radial ventilation

1PL6 2. . motors Shaft height 225													**External fan unit, radially mounted -Z**			
Position in Order No. **1PL6224 1PL6226 1PL6228**		8. ■ External fan unit	9.	10.	11. ■ Radial ventilation [2]	12. ■ Type (IM B3 and IM B35)		13. ■	14.	15. ■ Direction of air flow NDE → DE, shaft ext.	16.		**G04** NDE **top**, air inlet from NDE, dir. of air flow NDE → DE	**G02** NDE **right**, air inlet from NDE, dir. of air flow NDE → DE	**G00** NDE **left**, air inlet from NDE, dir. of air flow NDE → DE	
With external fan unit	-	**4** **7**	.	.	**5**	**0** **3**	-		.	**B** **D** **K**	.					
Without external fan unit, for pipe conn.	-	**6** **8**	.	.	**5**	**0** **3**	-		.	**B** **D** **K**	.					
Order codes for options																
R1Y Standard finish RAL ...																
R2Y Special finish RAL ...																
G14 With air filter																
G80 Prepared for POG10 pulse encoder mounting (encoder is supplied)																
K55 Cable entry plate, terminal box, customer-specific [1]																
K16 Second standard shaft extension (possible only for encoderless systems)													On request			
K31 Second rating plate																
Y55 Non-standard shaft extension DE																
K40 230 V standstill heating													On request			
Y80 Different rating plate data [1]													On request			
Y82 Extra rating plate with customer data													On request			

Standard design

Released supplementary versions

[1] Plain text required

[2] Direction of cable entry for **K09**: Power DE, encoder connector on top
Direction of cable entry for **K10**: Power DE, encoder connector on top
Direction of cable entry for **K11**: Cable entry on right, encoder connector DE

Permissible combinations of mechanical designs for 1PL6 motors, shaft height 225

	Terminal box arrangement -Z			Cable entries -Z			
	K09	K10	K11	K08	K83	K84	K85
	NDE **right** (view DE)	NDE **left** (view DE)	NDE **top** (view DE)	Encoder connector mounted opposite	Rotation of terminal box through +90°	Rotation of terminal box through -90°	Rotation of terminal box through 180°

Permissible combinations of mechanical designs for 1PL6 motors, shaft height 280

Selection and ordering data – supplements

Permissible combinations of mechanical designs

1PL6 28 . motors
Shaft height 280

Position in Order No. 8. 9. 10. 11. 12. 13. 14. 15. 16.
1PL628 . - ■ . . ■■ - . ■ . .

Permissible combinations of mechanical designs

External fan unit
8th position in Order No.
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 subseq. to NDE left)

1PL628 . - . . . . 0 -	Type IM B3	■						
			■					
				■				
					■			
						■		
								■
1PL628 . - . . . . 1 -	Type IM V5 (can be modified subsequently to IM V6)	■						
			■					
				■				
					■			
						■		
								■
1PL628 . - . . . . 3 -	Type IM B35	■						
			■					
				■				
					■			
						■		
								■
1PL628 . - . . . . 5 -	Type IM V15 (can be modified subsequently to IM V35)	■						
			■					
				■				
					■			
						■		
								■

Order codes for options							
R1Y Standard finish RAL ...	■	■	■	■	■	■	■
R2Y Special finish RAL ...	■	■	■	■	■	■	■
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)							
K31 Second rating plate	■	■	■	■	■	■	■
K45 230 V standstill heating	■	■	■	■	■	■	■
C30 690 V version	■	■	■	■	■	■	■
Y55 Non-standard shaft extension DE							
Y80 Different rating plate data [1]	■	■	■	■	■	■	■
Y82 Extra rating plate with customer data [1]	■	■	■	■	■	■	■
M83 Additional thread for a setting screw on motor feet							

■ Standard design

■ Released supplementary versions

[1] Plain text is necessary

Permissible combinations of mechanical designs for 1PL6 motors, shaft height 280

Terminal box 11th position in Order No. **1PL628 . - . . . ■ . - . . . .** **Order No. supplement**				**Type** 12th position in Order No. **1PL628 . - . . . . ■ - . . . .** **Order No. supplement**				**Drive type** 14th position in Order No. **1PL628 . - . . . . . - . ■ . .** **Order No. supplement**			
0	**1**	**2**	**5**	**0**	**1**	**3**	**5**	**A**	**B**	**E**	**F**
NDE **right** Cable entry at bottom, encoder connector DE	NDE **left** Cable entry at bottom, encoder connector DE	NDE **top** Cable entry on right, encoder connector DE	DE **top** Cable entry on right, encoder connector NDE	Type **IM B3**	Type **IM V5** (IM V6)	Type **IM B35**	Type **IM V15** (IM V35)	**Coupling N/N**	**Coupling R/R**	**Belt/ increased cantilever forces N/N**	**Belt/ increased cantilever forces R/R**