

Rated output at 50 Hz	Frame size	Operating values at rated output					Locked-rotor torque	Locked-rotor current	Break-down torque	Torque class	Moment of inertia	Order No. For Order No. supplements for voltage and type of construction, see table below	Price	Weight
		Rated speed at 50 Hz	Rated torque at 50 Hz	Efficiency at 50 Hz 4/4-load	Power factor at 50 Hz 4/4-load	Rated current at 50 Hz 400 V	with direct starting as multiple of rated torque	with direct starting current	torque					Type of construction IM B3 approx.
P_{rated} kW	FS	n_{rated} rpm	T_{rated} Nm	η_{rated} %	$\cos\varphi_{\text{rated}}$	I_{rated} A	$T_{\text{LR}}/T_{\text{rated}}$	$I_{\text{LR}}/I_{\text{rated}}$	$T_{\text{B}}/T_{\text{rated}}$	CL	J kg m ²			m kg
2-pole, 3000 rpm at 50 Hz, cooling method IC 411, IP55 degree of protection, with test certificate according to EN 12101-3														
3	100 L	2875	10	78.0	0.85	6.5	2.5	6.2	2.8	16	0.0038	1PP6 106-2UAQQ		31
4	112 M	2900	13	78.0	0.85	8.7	2.5	6.8	2.9	16	0.0055	1PP6 113-2UAQQ		40
5.5	132 S	2920	18	82.5	0.89	10.8	1.9	5.7	2.7	16	0.016	1PP6 130-2UAQQ		49
7.5	132 S	2930	24	84.0	0.89	14.5	2.0	6.5	2.8	16	0.021	1PP6 131-2UAQQ		54
11	160 M	2930	36	88.0	0.85	21	1.8	6.4	2.7	16	0.034	1PP6 163-2UAQQ		91
15	160 M	2930	49	88.5	0.89	27.5	2.0	6.5	2.80	16	0.04	1PP6 164-2UAQQ		99
18.5	160 L	2930	60	87.5	0.90	34	2.0	7.0	2.70	16	0.052	1PP6 166-2UAQQ		109
22	180 M	2955	71	93.1	0.88	39	2.4	7.0	3.2	16	0.086	1PP6 183-2UAQQ		175
30	200 L	2955	97	92.8	0.88	53	2.3	6.7	3.1	16	0.151	1PP6 206-2UAQQ		215
37	200 L	2958	119	93.0	0.89	65	2.4	7.1	3.2	16	0.182	1PP6 207-2UAQQ		245
45	225 M	2962	145	95.0	0.89	77	2.4	7.1	3.1	16	0.266	1PP6 223-2UAQQ		320
55	250 M	2972	177	94.9	0.90	94	2.3	6.7	2.9	16	0.466	1PP6 253-2UAQQ		405
75	280 S	2975	241	94.9	0.89	128	2.4	6.8	2.9	13	0.832	1PP6 280-2UBQQ		510
90	280 M	2976	289	95.2	0.90	152	2.5	7.4	3.0	13	1.00	1PP6 283-2UBQQ		595
110	315 S	2982	352	95.3	0.91	184	2.4	6.8	2.7	13	1.39	1PP6 310-2UBQQ		770
132	315 M	2980	423	95.7	0.91	220	2.5	6.9	2.8	13	1.62	1PP6 313-2UBQQ		895
160	315 L	2982	512	96.0	0.92	265	2.4	7.1	2.8	13	2.09	1PP6 316-2UBQQ		1035
190	315 L	2982	608	96.3	0.93	325	2.6	7.2	2.9	13	2.46	1PP6 317-2UBQQ		1225
4-pole, 1500 rpm at 50 Hz, cooling method IC 411, IP55 degree of protection, with test certificate according to EN 12101-3														
2.2	100 L	1410	15	74.0	0.75	5.6	2.2	5.2	2.7	16	0.0048	1PP6 106-4UAQQ		31
3	100 L	1410	20	76.0	0.80	7.1	2.5	5.0	2.6	16	0.0058	1PP6 107-4UAQQ		34
4	112 M	1440	27	79.0	0.76	9.8	2.7	5.7	3.0	16	0.011	1PP6 113-4UAQQ		42
5.5	132 S	1455	36	78.0	0.75	13.5	2.5	6.3	3.0	16	0.018	1PP6 130-4UAQQ		51
7.5	132 M	1455	49	84.0	0.75	17.2	2.7	6.7	3.1	16	0.024	1PP6 133-4UAQQ		58
11	160 M	1460	72	82.5	0.80	24	2.2	6.2	2.7	16	0.04	1PP6 163-4UAQQ		95
15	160 L	1460	98	81.5	0.80	33.5	2.4	6.4	2.8	16	0.052	1PP6 166-4UAQQ		108
18.5	180 M	1470	120	91.2	0.84	35	2.4	6.1	2.8	16	0.122	1PP6 183-4UAQQ		150
22	180 L	1472	143	92.1	0.85	40.5	2.4	6.4	2.9	16	0.144	1PP6 186-4UAQQ		175
30	200 L	1470	195	92.6	0.86	55	2.4	6.4	3.1	16	0.234	1PP6 207-4UAQQ		215
37	225 S	1480	239	92.9	0.86	67	2.6	6.5	2.8	16	0.398	1PP6 220-4UAQQ		280
45	225 M	1480	290	93.6	0.86	81	2.7	6.6	2.9	16	0.486	1PP6 223-4UAQQ		320
55	250 M	1485	354	94.5	0.87	97	2.5	7.4	2.9	16	0.856	1PP6 253-4UAQQ		445
75	280 S	1484	483	94.6	0.87	132	2.4	6.7	2.8	16	1.39	1PP6 280-4UAQQ		554
90	280 M	1486	578	95.1	0.86	160	2.6	7.3	3.0	16	1.71	1PP6 283-4UAQQ		655
110	315 S	1488	706	95.3	0.87	192	2.7	7.0	2.8	16	2.31	1PP6 310-4UAQQ		790
132	315 M	1488	847	95.6	0.88	225	2.6	7.1	2.8	16	2.88	1PP6 313-4UAQQ		945
160	315 L	1490	1025	95.8	0.88	275	2.9	7.2	2.9	16	3.46	1PP6 316-4UAQQ		1085
200	315 L	1488	1284	95.9	0.88	345	3.1	7.5	2.9	16	4.22	1PP6 317-4UAQQ		1285

Order No. supplements

Motor type	Penultimate position: Voltage code					Final position: Type of construction code							
	50 Hz					Without flange		With flange		With standard flange		With special flange	
	230 VΔ/ 400 VY	400 VΔ/ 690 VY	500 VY	500 VΔ		IM B3/6/7/8, IM V6, IM V5 without protective cover ¹⁾	IM B5, IM V3 ²⁾	IM V1 without protective cover	IM B35	IM B14, IM V19 IM V18 without protective cover	IM B34	IM B14, IM V19 IM V18 without protective cover	
	1	6	3	5	0	1	1	8	6	2	7	3	
1PP6 10 . - . . . □□	○	○	○	○	□	✓	✓	–	✓	✓	✓	✓	
1PP6 11 . - . . . □□	○	○	○	○	□	✓	✓	–	✓	✓	✓	✓	
1PP6 13 . - . . . □□	○	○	○	○	□	✓	✓	–	✓	✓	✓	✓	
1PP6 16 . - . . . □□	○	○	○	○	□	✓	✓	–	✓	✓	✓	✓	
1PP6 18 . - . . . □□	○	○	○	○	□	✓ ³⁾	✓	–	✓	–	–	–	
1PP6 20 . - . . . □□	○	○	○	○	□	✓ ³⁾	✓	–	✓	–	–	–	
1PP6 22 . - . . . □□	○	○	○	○	□	✓ ³⁾	✓	–	✓	–	–	–	
1PP6 25 . - . . . □□	○	○	○	○	□	✓ ³⁾	✓	–	✓	–	–	–	
1PP6 28 . - . . . □□	○	○	○	○	□	✓ ³⁾	✓	–	✓	–	–	–	
1PP6 310 - . . . □□	○	○	○	○	□	✓ ³⁾	✓	–	✓	–	–	–	
1PP6 313 - . . . □□													
1PP6 316 - . . . □□	–	○	–	○	□ ⁴⁾	–	–	✓	✓	–	–	–	
1PP6 317 - . . . □□													

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and with order code **L1Y** (see “Special versions” in the “Options” under “Voltages”).

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see “Special versions” in the “Options” under “Types of construction”).

1) If motors 1PP6 183-... to 1PP6 318-... (motor series 1PP6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7, IM V6 or IM V5 without protective cover are fixed to the wall, it is recommended that the motor feet are supported.

2) 1PP6 220-... to 1PP6 318-... motors (motor series 1PP6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be rotated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.

3) Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.

4) Not possible for type of construction IM V6 and IM V5 without protective cover.

Rated output at 50 Hz	Frame size	Operating values at rated output					Locked-rotor torque	Locked-rotor current	Break-down torque	Torque class	Moment of inertia	Order No. For Order No. supplements for voltage and type of construction, see table below	Price	Weight
		Rated speed at 50 Hz	Rated torque at 50 Hz	Efficiency at 50 Hz 4/4-load	Power factor at 50 Hz 4/4-load	Rated current at 50 Hz 400 V	with direct starting torque	starting current	torque					Type of construction IM B3 approx. <i>m</i> kg
<i>P</i> _{rated} kW	FS	<i>n</i> _{rated} rpm	<i>T</i> _{rated} Nm	<i>η</i> _{rated} %	cos <i>φ</i> _{rated}	<i>I</i> _{rated} A	<i>T</i> _{LR} / <i>T</i> _{rated}	<i>I</i> _{LR} / <i>I</i> _{rated}	<i>T</i> _B / <i>T</i> _{rated}	CL	<i>J</i> kg m ²			
6-pole, 1000 rpm at 50 Hz, cooling method IC 411, IP55 degree of protection, with test certificate according to EN 12101-3														
1.5	100 L	925	15	69.0	0.70	4.5	2.3	4.0	2.3	16	0.0063	1PP6 106-6UAQQ		31
2.2	112 M	940	22	72.0	0.74	6.0	2.1	4.4	2.3	16	0.011	1PP6 113-6UAQQ		42
3	132 S	950	30	74.0	0.75	7.8	1.6	4.1	1.7	16	0.015	1PP6 130-6UAQQ		52
4	132 M	950	40	76.0	0.76	10	1.7	4.6	2.1	16	0.019	1PP6 133-6UAQQ		62
5.5	132 M	950	55	75.0	0.76	14	2.0	5.0	2.3	16	0.025	1PP6 134-6UAQQ		72
7.5	160 M	970	75	75.0	0.72	20	2.0	5.0	2.4	16	0.041	1PP6 163-6UAQQ		107
11	160 L	970	109	80.0	0.72	27.5	2.0	5.0	2.5	16	0.049	1PP6 166-6UAQQ		129
15	180 L	975	147	88.9	0.82	30	2.2	5.2	2.3	16	0.203	1PP6 186-6UAQQ		170
18.5	200 L	975	181	89.8	0.82	36.5	2.2	5.3	2.3	16	0.285	1PP6 206-6UAQQ		200
22	200 L	975	215	90.8	0.83	42.5	2.2	5.4	2.3	16	0.362	1PP6 207-6UAQQ		230
30	225 M	980	292	92.3	0.84	56	2.7	6.3	2.8	16	0.629	1PP6 223-6UAQQ		315
37	250 M	984	359	93.0	0.84	69	2.8	6.5	2.4	16	0.934	1PP6 253-6UAQQ		390
45	280 S	986	436	92.6	0.86	82	2.8	6.3	2.5	16	1.37	1PP6 280-6UAQQ		500
55	280 M	986	533	93.1	0.86	99	3.1	6.8	2.7	16	1.65	1PP6 283-6UAQQ		550
75	315 S	990	723	94.0	0.84	138	2.7	7.0	2.9	16	2.50	1PP6 310-6UAQQ		740
90	315 M	988	870	94.5	0.85	162	2.6	7.1	2.8	16	2.50	1PP6 313-6UAQQ		915
110	315 L	988	1063	94.7	0.85	198	2.8	7.2	2.8	16	2.50	1PP6 316-6UAQQ		990
132	315 L	990	1273	95.1	0.85	235	3.0	7.5	3.0	16	2.50	1PP6 317-6UAQQ		1160
160	315 L	988	1546	95.1	0.86	285	3.1	7.5	3.0	16	2.50	1PP6 318-6UAQQ		1225

Order No. supplements

Motor type	Penultimate position: Voltage code					Final position: Type of construction code							
	50 Hz					Without flange	With flange			With standard flange		With special flange	
	230 VΔ/ 400 VY	400 VΔ/ 690 VY	500 VY	500 VΔ			IM B3/6/7/8, IM V6, IM V5 without protective cover ¹⁾	IM B5, IM V3 ²⁾	IM V1 without protective cover	IM B35	IM B14, IM V19 IM V18 without protective cover	IM B34	IM B14, IM V19 IM V18 without protective cover
	1	6	3	5	0		1	1	8	6	2	7	3
1PP6 10 . - . . . □□	○	○	○	○	□		✓	✓	–	✓	✓	✓	✓
1PP6 11 . - . . . □□	○	○	○	○	□		✓	✓	–	✓	✓	✓	✓
1PP6 13 . - . . . □□	○	○	○	○	□		✓	✓	–	✓	✓	✓	✓
1PP6 16 . - . . . □□	○	○	○	○	□		✓	✓	–	✓	✓	✓	✓
1PP6 18 . - . . . □□	○	○	○	○	□		✓ ³⁾	✓	–	✓	–	–	–
1PP6 20 . - . . . □□	○	○	○	○	□		✓ ³⁾	✓	–	✓	–	–	–
1PP6 22 . - . . . □□	○	○	○	○	□		✓ ³⁾	✓	–	✓	–	–	–
1PP6 25 . - . . . □□	○	○	○	○	□		✓ ³⁾	✓	–	✓	–	–	–
1PP6 28 . - . . . □□	○	○	○	○	□		✓ ³⁾	✓	–	✓	–	–	–
1PP6 310 . - . . . □□	○	○	○	○	□		✓ ³⁾	✓	–	✓	–	–	–
1PP6 313 . - . . . □□													
1PP6 316 . - . . . □□	–	○	–	○	□ ⁴⁾		–	–	✓	✓	–	–	–
1PP6 317 . - . . . □□													
1PP6 318 . - . . . □□													

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and with order code **L1Y** (see “Special versions” in the “Options” under “Voltages”).

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see “Special versions” in the “Options” under “Types of construction”).

¹⁾ If motors 1PP6 183-... to 1PP6 318-... (motor series 1PP6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7, IM V6 or IM V5 without protective cover are fixed to the wall, it is recommended that the motor feet are supported.

²⁾ 1PP6 220-... to 1PP6 318-... motors (motor series 1PP6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be rotated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.

³⁾ Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.

⁴⁾ Not possible for type of construction IM V6 and IM V5 without protective cover.