

Rated output at		Frame size	Operating values at rated output							Order No.	For Order No. supplements for voltage, type of construction, motor protection and connection box, see from Page 3	Price	Weight
50 Hz	60 Hz		Rated speed at 50 Hz	Rated torque at 50 Hz	Efficiency Class according to CEMEP	Efficiency at 50 Hz 4/4-load	Efficiency at 50 Hz 3/4-load	Power factor at 50 Hz 4/4-load	Rated current at 400 V, 50 Hz				
P_{rated} kW	P_{rated} kW	FS	n_{rated} rpm	T_{rated} Nm		η_{rated} %	η_{rated} %	$\cos\varphi_{rated}$	I_{rated} A				m kg
Motor version: temperature class 155 (F), IP55 degree of protection, used acc. to temperature class 130 (B)													
2-pole – 3000 rpm at 50 Hz, 3600 rpm at 60 Hz													
1.4		100 L	2920	4.6		87.5		0.88	2.6	1PC1001-1AA4Q-QQQQ			21
1.6		112 M	2955	5.2		82		0.9	3.15	1PC1001-1BA2Q-QQQQ			27
3.1		132 S	2955	10		91		0.89	5.5	1PC1001-1CA0Q-QQQQ			39
4.3		132 S	2955	14		91.5		0.9	7.5	1PC1001-1CA1Q-QQQQ			43
6.3		160 M	2955	20		94.5		0.89	10.8	1PC1001-1DA2Q-QQQQ			67
6.5		160 M	2960	21		91.5		0.9	11.4	1PC1001-1DA3Q-QQQQ			75
9		160 L	2960	29		93.5		0.91	15.2	1PC1001-1DA4Q-QQQQ			84
4-pole – 1500 rpm at 50 Hz, 1800 rpm at 60 Hz													
1.1		100 L	1460	7.2		86		0.83	2.2	1PC1001-1AB4Q-QQQQ			21
1.5		100 L	1460	9.8		86		0.84	3	1PC1001-1AB5Q-QQQQ			25
2		112 M	1460	13		88.5		0.83	3.95	1PC1001-1BB2Q-QQQQ			29
2.6		132 S	1465	17		89.5		0.83	5.1	1PC1001-1CB0Q-QQQQ			42
4		132 M	1465	26		89.5		0.84	7.7	1PC1001-1CB2Q-QQQQ			49
6		160 M	1470	39		91		0.87	11	1PC1001-1DB2Q-QQQQ			71
6.2		160 L	1480	40		91.5		0.86	11.4	1PC1001-1DB4Q-QQQQ			83
6-pole – 1000 rpm at 50 Hz, 1200 rpm at 60 Hz													
0.85		100 L	960	8.5		85		0.75	1.92	1PC1001-1AC4Q-QQQQ			25
1.2		112 M	960	12		83.5		0.75	2.75	1PC1001-1BC2Q-QQQQ			29
1.5		132 S	970	15		86.5		0.77	3.25	1PC1001-1CC0Q-QQQQ			38
2.5		132 M	970	25		87		0.79	5.3	1PC1001-1CC2Q-QQQQ			43
2.7		132 M	975	26		88		0.77	5.8	1PC1001-1CC3Q-QQQQ			52
5		160 M	975	49		89		0.77	10.6	1PC1001-1DC2Q-QQQQ			77
6.5		160 L	975	64		89.5		0.8	13.2	1PC1001-1DC4Q-QQQQ			93
8-pole – 750 rpm at 50 Hz, 900 rpm at 60 Hz													
0.37		100 L	730	4.8		72.5		0.58	1.28	1PC1001-1AD4Q-QQQQ			21
0.55		100 L	720	7.3		73		0.62	1.76	1PC1001-1AD5Q-QQQQ			25
0.75		112 M	720	9.9		77.5		0.66	2.1	1PC1001-1BD2Q-QQQQ			29
1.1		132 S	730	14		82.5		0.65	2.95	1PC1001-1CD0Q-QQQQ			41
1.5		132 M	730	20		84		0.68	3.8	1PC1001-1CD2Q-QQQQ			49
2.4		160 M	730	31		88.5		0.7	5.6	1PC1001-1DD2Q-QQQQ			69
3.3		160 M	730	43		88		0.7	7.7	1PC1001-1DD3Q-QQQQ			82
4.6		160 L	730	60		88		0.7	10.8	1PC1001-1DD4Q-QQQQ			94

Order No.	Locked-rotor torque	Locked-rotor current	Breaddown torque	Torque class	Moment of inertia	Noise at rated output	
	with direct starting torque	as multiple of rated current	torque			Measuring-surface sound pressure level at 50 Hz	Sound pressure level at 50 Hz
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	CL	J kgm ²	L_{pA} dB(A)	L_{WA} dB(A)
Motor version: temperature class 155 (F), IP55 degree of protection, used acc. to temperature class 130 (B)							
2-pole – 3000 rpm at 50 Hz, 3600 rpm at 60 Hz							
1PC1001-1AA4Q-□□□□	2.1	8.3	3.6	13	0.0044	67	79
1PC1001-1BA2Q-□□□□	2.5	9.5	3.5	16	0.0092	69	81
1PC1001-1CA0Q-□□□□	1.9	7.1	2.9	13	0.0201	62	74
1PC1001-1CA1Q-□□□□	1.9	7.6	2.9	13	0.0235	62	74
1PC1001-1DA2Q-□□□□	1.8	7.1	3	10	0.0447	60	72
1PC1001-1DA3Q-□□□□	2.3	8.7	3.3	13	0.0528	60	72
1PC1001-1DA4Q-□□□□	2.4	8.7	3.2	16	0.0608	60	72
4-pole – 1500 rpm at 50 Hz, 1800 rpm at 60 Hz							
1PC1001-1AB4Q-□□□□	2.1	7.6	3.3	13	0.0086	60	72
1PC1001-1AB5Q-□□□□	2.2	7.8	3.5	13	0.0109	60	72
1PC1001-1BB2Q-□□□□	2.3	7.4	3.1	13	0.0140	58	70
1PC1001-1CB0Q-□□□□	2.2	7.5	2.8	13	0.0270	64	76
1PC1001-1CB2Q-□□□□	2.1	7.3	2.9	13	0.0335	64	76
1PC1001-1DB2Q-□□□□	1.8	6	2.5	10	0.0649	64	76
1PC1001-1DB4Q-□□□□	2.6	8.6	3.5	16	0.0828	64	76
6-pole – 1000 rpm at 50 Hz, 1200 rpm at 60 Hz							
1PC1001-1AC4Q-□□□□	1.7	5.5	2.6	10	0.0113	59	71
1PC1001-1BC2Q-□□□□	1.7	5.7	2.7	10	0.0139	55	67
1PC1001-1CC0Q-□□□□	1.4	5.5	2.4	7	0.0237	63	75
1PC1001-1CC2Q-□□□□	1.4	5.4	2.3	7	0.0292	63	75
1PC1001-1CC3Q-□□□□	1.9	6.8	3	13	0.0367	63	75
1PC1001-1DC2Q-□□□□	1.6	6	2.6	10	0.0754	67	79
1PC1001-1DC4Q-□□□□	1.6	6	2.6	10	0.0975	67	79
8-pole – 750 rpm at 50 Hz, 900 rpm at 60 Hz							
1PC1001-1AD4Q-□□□□	1.5	4.5	2.7	10	0.0086	60	72
1PC1001-1AD5Q-□□□□	1.6	4.4	2.5	10	0.0109	60	72
1PC1001-1BD2Q-□□□□	1.3	4.4	2.4	7	0.0140	63	75
1PC1001-1CD0Q-□□□□	1.2	4.5	2.1	7	0.0270	63	75
1PC1001-1CD2Q-□□□□	1.2	4.7	2.3	7	0.0346	63	75
1PC1001-1DD2Q-□□□□	1.6	4.4	1.8	10	0.0649	63	75
1PC1001-1DD3Q-□□□□	1.6	4.6	1.8	10	0.0828	63	75
1PC1001-1DD4Q-□□□□	1.5	4.5	1.8	10	0.0982	63	75

Order No. supplements

Motor type	Frame size	Positions 12 and 13: Voltages (voltage codes)							
		Standard voltages				Further voltages			
		50 Hz				50 Hz			
		230 VΔ/400 VY	400 VΔ/690 VY	500 VY	500 VΔ	220 VΔ/380 VY	380 VΔ/660 VY	415 VY	415 VΔ
		60 Hz				Rated voltage range			
		460 VY	460 VΔ	(210 ... 230 VΔ/ 360 ... 400 VY) ¹⁾ (360 ... 400 VΔ/ 625 ... 695 VY) ¹⁾ (395 ... 435 VY) ¹⁾ (395 ... 435 VΔ) ¹⁾					
		see "Selection and ordering data" for outputs at 60 Hz							
		22	34	27	40	21	33	23	35
1PC1001-1A..□-□...	100 L	○	○	○	○	✓	✓	✓	✓
1PC1001-1B..□-□...	112 M	○	○	○	○	✓	✓	✓	✓
1PC1001-1C..□-□...	132 S/M	○	○	○	○	✓	✓	✓	✓
1PC1001-1D..□-□...	160 M/L	○	○	○	○	✓	✓	✓	✓

○ Without additional charge

✓ With additional charge

Order other voltages with voltage code **9** in position 12, code **0** in position 13 and the corresponding order code (see "Special versions" in the "Selection and ordering data" under "Voltages")

Motor type	Frame size	Position 14: Type of construction (type letter)										
		With flange						With flange (acc. to DIN EN 50347)				
		IM B3 ^{2) 3)}	IM B6 ³⁾	IM B7 ³⁾	IM B8 ³⁾	IM V6 ³⁾	IM V5 without protec- tive cover ³⁾	Flange size	IM B5 ^{3) 4)}	IM V1 without protec- tive cover ³⁾	IM V3 ³⁾	IM B35
		A	T	U	V	D	C	F	G	H	J	
		Order No. supplement -Z with order code	-	-	-	-	-	-	-	-	-	-
1PC1001-1A...-Q..	100 L	□	□	□	□	□	□	FF 215	✓	✓	✓	✓
1PC1001-1B...-Q..	112 M	□	□	□	□	□	□	FF 215	✓	✓	✓	✓
1PC1001-1C...-Q..	132 S/M	□	□	□	□	□	□	FF 265	✓	✓	✓	✓
1PC1001-1D...-Q..	160 M/L	□	□	□	□	□	□	FF 300	✓	✓	✓	✓

Motor type	Frame size	Position 14: Type of construction (type letter)									
		With standard flange (acc. to DIN EN 50347)					With standard flange (next larger standard flange acc. to DIN EN 50347)				
		Flange size	IM B14 ^{3) 5)}	IM V19 ³⁾	IM V18 without protec- tive cover ³⁾	IM B34	Flange size	IM B14 ^{3) 5)}	IM V19 ³⁾	IM V18 without protec- tive cover ³⁾	IM B34
		K	L	M	N		K	L	M	N	
		Order No. supplement -Z with order code	-	-	-	-	-Z	-Z	-Z	-Z	
							P01	P01	P01	P01	
1PC1001-1A...-Q..	100 L	FT 130	✓	✓	✓	✓	FT 165	✓	✓	✓	✓
1PC1001-1B...-Q..	112 M	FT 130	✓	✓	✓	✓	FT 165	✓	✓	✓	✓
1PC1001-1C...-Q..	132 S/M	FT 165	✓	✓	✓	✓	FT 215	✓	✓	✓	✓
1PC1001-1D...-Q..	160 M/L	FT 215	✓	✓	✓	✓	-	-	-	-	-

- Standard version

✓ With additional charge

1) A rated voltage range is also specified on the rating plate.

2) The types of construction IM B6/7/8, IM V6 and IM V5 without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard, the type of construction IM B3 is then stamped on the rating plate.

3) The type of construction is stamped on the rating plate. When ordering with condensation drainage holes (order code **H03**), it is absolutely necessary to specify the type of construction for the exact position of the condensation drainage holes during manufacture.

4) The types of construction IM V3 and IM V1 without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard, the type of construction IM B5 is then stamped on the rating plate.

5) The types of construction IM V19 and IM V18 without protective cover are also possible as long as no condensation drainage holes (order code **H03**) and no stamping of these types of construction on the rating plate are required. As standard, the type of construction IM B14 is then stamped on the rating plate.

Motor type	Frame size	Position 15: Motor protection (motor protection letter)					
		Without motor protection	Motor protection with PTC thermistors with 3 embedded temperature sensors for tripping ¹⁾	Motor protection with PTC thermistors with 6 embedded temperature sensors for alarm and tripping ¹⁾	Motor temperature detection with embedded temperature sensor KTY 84-130 ¹⁾	NTC thermistors for tripping	Temperature detectors for tripping ¹⁾
		A	B	C	F	Z Q2A	Z Q3A
Order code							
1PC1001-1A...-□.	100 L	□	✓	✓	✓	✓	✓
1PC1001-1B...-□.	112 M	□	✓	✓	✓	✓	✓
1PC1001-1C...-□.	132 S/M	□	✓	✓	✓	✓	✓
1PC1001-1D...-□.	160 M/L	□	✓	✓	✓	✓	✓

□ Standard version

✓ With additional charge

Motor type	Frame size	Position 16: Connection box (connection box code)			
		Connection box top ²⁾	Connection box on RHS ³⁾	Connection box on LHS ³⁾	Connection box bottom ³⁾
		4	5	6	7
1PC1001-1A...-...□	100 L	□	✓	✓	✓
1PC1001-1B...-...□	112 M	□	✓	✓	✓
1PC1001-1C...-...□	132 S/M	□	✓	✓	✓
1PC1001-1D...-...□	160 M/L	□	✓	✓	✓

☐ Standard version
☒ With additional charge

1) Evaluation with appropriate tripping unit (see Catalog LV 1) is recommended.

2) With type of construction, cast feet as standard. Screwed-on feet are available with order code **H01**, see "Special versions".

3) With type of construction, screwed-on feet as standard.