

Rated output at		Frame size	Operating values at rated output							Order No.	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	For Order No. supplements for voltage, type of construction, motor protection and connection box, see from Page 3	IM B3 type of construction	IM B3 type of construction approx.			
P_{rated} kW	P_{rated} kW	FS	n_{rated} rpm	T_{rated} Nm		η_{rated} %	η_{rated} %	$\cos\varphi_{\text{rated}}$	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															
1.2		100 L	2830	4.05		81.4		0.92	2.3				1PC1002-1AA4Q-QQQQ		20
1.6		112 M	2925	5.2		83.6		0.93	2.95	1PC1002-1BA2Q-QQQQ		25			
2.2		132 S	2910	7.24		84		0.94	4	1PC1002-1CA0Q-QQQQ		35			
3		132 S	2920	9.8		87		0.93	5.35	1PC1002-1CA1Q-QQQQ		40			
4.4		160 M	2830	15		89.6		0.9	7.9	1PC1002-1DA2Q-QQQQ		60			
6		160 M	2935	20		90		0.91	10.6	1PC1002-1DA3Q-QQQQ		68			
7.4		160 L	2930	24		90.6		0.92	12.9	1PC1002-1DA4Q-QQQQ		78			
4-pole – 1500 rpm at 50 Hz, 1800 rpm at 60 Hz															
0.88		100 L	1420	5.92		80.7		0.88	1.8	1PC1002-1AB4Q-QQQQ		18			
1.2		100 L	1420	8.06		83		0.89	2.35	1PC1002-1AB5Q-QQQQ		22			
1.6		112 M	1430	11		83.7		0.89	3.1	1PC1002-1BB2Q-QQQQ		27			
2.2		132 S	1450	14.53		85.8		0.89	4.15	1PC1002-1CB0Q-QQQQ		38			
3		132 M	1450	19.8		87.2		0.89	5.58	1PC1002-1CB2Q-QQQQ		44			
4.4		160 M	1460	29		88		0.88	8.2	1PC1002-1DB2Q-QQQQ		62			
6		160 L	1460	39		89.5		0.89	10.9	1PC1002-1DB4Q-QQQQ		73			
6-pole – 1000 rpm at 50 Hz, 1200 rpm at 60 Hz															
0.6		100 L	935	6.12		76.1		0.81	1.4	1PC1002-1AC4Q-QQQQ		19			
0.88		112 M	930	9		79		0.82	1.96	1PC1002-1BC2Q-QQQQ		25			
1.2		132 S	950	12		80.7		0.83	2.58	1PC1002-1CC0Q-QQQQ		34			
1.6		132 M	950	16		83.2		0.83	3.35	1PC1002-1CC2Q-QQQQ		39			
2.2		132 M	950	22.13		85.1		0.83	4.5	1PC1002-1CC3Q-QQQQ		48			
3		160 M	970	30		86.5		0.81	6.2	1PC1002-1DC2Q-QQQQ		72			
4.4		160 L	970	43		88		0.81	8.9	1PC1002-1DC4Q-QQQQ		92			
8-pole – 750 rpm at 50 Hz, 900 rpm at 60 Hz															
0.3		100 L	710	4.05		66.3		0.67	0.97	1PC1002-1AD4Q-QQQQ		17			
0.44		100 L	705	6		71		0.69	1.3	1PC1002-1AD5Q-QQQQ		22			
0.6		112 M	695	8.2		75.2		0.72	1.6	1PC1002-1BD2Q-QQQQ		25			
0.88		132 S	720	11.66		80.6		0.71	2.2	1PC1002-1CD0Q-QQQQ		37			
1.2		132 M	720	16		81.5		0.72	2.95	1PC1002-1CD2Q-QQQQ		44			
1.6		160 M	730	21		82		0.74	3.8	1PC1002-1DD2Q-QQQQ		60			
2.2		160 M	730	29		85		0.74	5.1	1PC1002-1DD3Q-QQQQ		72			
3		160 L	730	39		86		0.74	6.8	1PC1002-1DD4Q-QQQQ		91			

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							
1PC1002-1AA4□-□□□□	3	6	3	16	0.0034	67	79
1PC1002-1BA2□-□□□□	2.3	7.2	3	13	0.0067	69	81
1PC1002-1CA0□-□□□□	1.7	5.3	2.3	10	0.0127	62	74
1PC1002-1CA1□-□□□□	2	6.3	2.8	13	0.0160	62	74
1PC1002-1DA2□-□□□□	2.1	6.3	2.9	13	0.0297	60	72
1PC1002-1DA3□-□□□□	2.5	7	3.1	16	0.0362	60	72
1PC1002-1DA4□-□□□□	2.5	7	3.1	16	0.0439	60	72
4-pole – 1500 rpm at 50 Hz, 1800 rpm at 60 Hz							
1PC1002-1AB4□-□□□□	2	5.1	2.2	13	0.0059	60	72
1PC1002-1AB5□-□□□□	2.2	5.4	2.4	13	0.0078	60	72
1PC1002-1BB2□-□□□□	1.9	5.4	2.2	13	0.0102	58	70
1PC1002-1CB0□-□□□□	2.2	5.7	2.6	13	0.0186	64	76
1PC1002-1CB2□-□□□□	2.4	6.4	2.7	16	0.0237	64	76
1PC1002-1DB2□-□□□□	2.1	7	2.8	13	0.0439	64	76
1PC1002-1DB4□-□□□□	2.4	7.5	3	16	0.0562	64	76
6-pole – 1000 rpm at 50 Hz, 1200 rpm at 60 Hz							
1PC1002-1AC4□-□□□□	1.8	4.1	2	10	0.0065	59	71
1PC1002-1BC2□-□□□□	2.1	4.2	2.2	13	0.0092	55	67
1PC1002-1CC0□-□□□□	1.7	4.5	2.2	10	0.0167	63	75
1PC1002-1CC2□-□□□□	1.9	4.6	2.2	13	0.0212	63	75
1PC1002-1CC3□-□□□□	2.2	5	2.5	13	0.0274	63	75
1PC1002-1DC2□-□□□□	2.1	6	2.7	13	0.0563	67	79
1PC1002-1DC4□-□□□□	2.1	6.4	2.8	13	0.0780	67	79
8-pole – 750 rpm at 50 Hz, 900 rpm at 60 Hz							
1PC1002-1AD4□-□□□□	1.8	3.3	2.2	10	0.0056	60	72
1PC1002-1AD5□-□□□□	1.8	3.4	2.2	10	0.0078	60	72
1PC1002-1BD2□-□□□□	1.7	3.3	1.9	10	0.0094	63	75
1PC1002-1CD0□-□□□□	1.6	4.2	2.3	10	0.0186	63	75
1PC1002-1CD2□-□□□□	1.7	4.2	2.3	10	0.0237	63	75
1PC1002-1DD2□-□□□□	1.7	4.9	2.3	10	0.0439	63	75
1PC1002-1DD3□-□□□□	1.5	5	2.3	10	0.0562	63	75
1PC1002-1DD4□-□□□□	1.8	5.4	2.5	10	0.0772	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
1PC1002-1A..□-□...	100 L	○	○	○	○	✓	✓	✓	✓
1PC1002-1B..□-□...	112 M	○	○	○	○	✓	✓	✓	✓
1PC1002-1C..□-□...	132 S/M	○	○	○	○	✓	✓	✓	✓
1PC1002-1D..□-□...	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	-	-	-	-	-	-	-	-	-	-
1PC1002-1A...-Q..	100 L		□	□	□	□	□	FF 215	✓	✓	✓	✓
1PC1002-1B...-Q..	112 M		□	□	□	□	□	FF 215	✓	✓	✓	✓
1PC1002-1C...-Q..	132 S/M		□	□	□	□	□	FF 265	✓	✓	✓	✓
1PC1002-1D...-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	-Z
							P01	P01	P01	P01	P01
1PC1002-1A...-Q..	100 L	FT 130	✓	✓	✓	✓	FT 165	✓	✓	✓	✓
1PC1002-1B...-Q..	112 M	FT 130	✓	✓	✓	✓	FT 165	✓	✓	✓	✓
1PC1002-1C...-Q..	132 S/M	FT 165	✓	✓	✓	✓	FT 215	✓	✓	✓	✓
1PC1002-1D...-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							
1PC1002-1A...-□.	100 L	□	✓	✓	✓	✓	✓
1PC1002-1B...-□.	112 M	□	✓	✓	✓	✓	✓
1PC1002-1C...-□.	132 S/M	□	✓	✓	✓	✓	✓
1PC1002-1D...-□.	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
1PC1002-1A...-...□	100 L	□	✓	✓	✓
1PC1002-1B...-...□	112 M	□	✓	✓	✓
1PC1002-1C...-...□	132 S/M	□	✓	✓	✓
1PC1002-1D...-...□	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.