

Rated output at		Frame size	Operating characteristics at rated output							Order No. with -Z and order code	Price	Weight
50 Hz	60 Hz		Rated speed at 50 Hz	Rated torque at 50 Hz	Relevant for IE changeover				For Order No. supplements for voltage, type of construction, motor protection and connection box, see table from Page 3	For type of construction IM B3	For type of construction IM B3 approx.	
P_{rated}	P_{rated}	FS	n_{rated}	M_{rated}	Efficiency Class acc. to IEC 60034-30 standard	Efficiency at 50 Hz 100 %-load	Efficiency at 50 Hz 75 %-load	Power factor at 50 Hz 100 %-load				Rated current at 400 V, 50 Hz
P_{rated} kW	P_{rated} kW		rpm	Nm		η_{rated} %	η_{rated} %	$\cos \varphi_{\text{rated}}$				I_{rated} 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												
3	3.45	100 L	2905	9.9	IE2	84.6	85	0.84	6.1	1LE1001-1AA4Q-0000-Z F90	21	
4	4.6	112 M	2950	13	IE2	85.8	86	0.86	7.8	1LE1001-1BA2Q-0000-Z F90	27	
5.5	6.3	132 S	2950	18	IE2	87	87.5	0.87	10.4	1LE1001-1CA0Q-0000-Z F90	39	
7.5	8.6	132 S	2950	24	IE2	88.1	88.6	0.87	14.2	1LE1001-1CA1Q-0000-Z F90	43	
11	12.6	160 M	2955	36	IE2	89.4	89.5	0.87	20.5	1LE1001-1DA2Q-0000-Z F90	67	
15	17.3	160 M	2955	48	IE2	90.3	90.3	0.88	27	1LE1001-1DA3Q-0000-Z F90	75	
18.5	21.3	160 L	2955	60	IE2	90.9	91.2	0.88	33.5	1LE1001-1DA4Q-0000-Z F90	84	
4-pole – 1500 rpm at 50 Hz, 1800 rpm at 60 Hz												
2.2	2.55	100 L	1455	14	IE2	84.3	84.6	0.81	4.65	1LE1001-1AB4Q-0000-Z F90	21	
3	3.45	100 L	1455	20	IE2	85.5	85.9	0.82	6.2	1LE1001-1AB5Q-0000-Z F90	25	
4	4.6	112 M	1460	26	IE2	86.6	86.7	0.81	8.2	1LE1001-1BB2Q-0000-Z F90	29	
5.5	6.3	132 S	1465	36	IE2	87.7	87.9	0.80	11.4	1LE1001-1CB0Q-0000-Z F90	42	
7.5	8.6	132 M	1465	49	IE2	88.7	89.2	0.83	14.8	1LE1001-1CB2Q-0000-Z F90	49	
11	12.6	160 M	1470	71	IE2	89.8	90.3	0.85	21	1LE1001-1DB2Q-0000-Z F90	71	
15	17.3	160 L	1475	97	IE2	90.6	90.8	0.85	28	1LE1001-1DB4Q-0000-Z F90	83	
6-pole – 1000 rpm at 50 Hz, 1200 rpm at 60 Hz												
1.5	1.75	100 L	970	15	IE2	79.8	79.8	0.73	3.7	1LE1001-1AC4Q-0000-Z F90	25	
2.2	2.55	112 M	965	22	IE2	81.8	81.8	0.75	5.2	1LE1001-1BC2Q-0000-Z F90	29	
3	3.45	132 S	970	30	IE2	83.3	83.3	0.74	7	1LE1001-1CC0Q-0000-Z F90	38	
4	4.6	132 M	970	39	IE2	84.6	84.6	0.78	8.7	1LE1001-1CC2Q-0000-Z F90	43	
5.5	6.3	132 M	970	54	IE2	86	86	0.77	12	1LE1001-1CC3Q-0000-Z F90	52	
7.5	8.6	160 M	975	73	IE2	87.2	87.2	0.77	16.2	1LE1001-1DC2Q-0000-Z F90	77	
11	12.6	160 L	975	108	IE2	88.7	88.4	0.80	22.5	1LE1001-1DC4Q-0000-Z F90	93	
8-pole – 750 rpm at 50 Hz, 900 rpm at 60 Hz												
0.75	0.86	100 L	725	9.9		68	65	0.58	2.75	1LE1001-1AD4Q-0000-Z F90	21	
1.1	1.3	100 L	725	14		68	64.5	0.58	4.05	1LE1001-1AD5Q-0000-Z F90	25	
1.5	1.75	112 M	720	20		77	75.5	0.67	4.2	1LE1001-1BD2Q-0000-Z F90	29	
2.2	2.55	132 S	725	29		77.5	76.7	0.63	6.5	1LE1001-1CD0Q-0000-Z F90	41	
3	3.45	132 M	730	40		84	82	0.65	7.9	1LE1001-1CD2Q-0000-Z F90	49	
4	4.6	160 M	730	52		87	88	0.69	9.6	1LE1001-1DD2Q-0000-Z F90	69	
5.5	6.3	160 M	735	72		87.5	89	0.69	13.2	1LE1001-1DD3Q-0000-Z F90	82	
7.5	8.6	160 L	730	98		88	89	0.72	17	1LE1001-1DD4Q-0000-Z F90	94	

Order No. with -Z and order code	Locked-rotor torque	Locked-rotor current	Breakdown 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							
1LE1001-1AA4Q-QQQQ-Z F90	2.3	7	3.3	16	0.0044	67	79
1LE1001-1BA2Q-QQQQ-Z F90	2.4	7.4	3.3	16	0.0092	69	81
1LE1001-1CA0Q-QQQQ-Z F90	1.8	6.7	2.9	16	0.02012	68	80
1LE1001-1CA1Q-QQQQ-Z F90	2.2	7.5	3.1	16	0.02353	68	80
1LE1001-1DA2Q-QQQQ-Z F90	2.1	7.4	3.2	16	0.04471	70	82
1LE1001-1DA3Q-QQQQ-Z F90	2.4	7.6	3.4	16	0.05277	70	82
1LE1001-1DA4Q-QQQQ-Z F90	2.9	7.9	3.6	16	0.06085	70	82
4-pole – 1500 rpm at 50 Hz, 1800 rpm at 60 Hz							
1LE1001-1AB4Q-QQQQ-Z F90	2.1	6.9	3.3	16	0.0086	60	72
1LE1001-1AB5Q-QQQQ-Z F90	2	6.9	3.1	16	0.0109	60	72
1LE1001-1BB2Q-QQQQ-Z F90	2.5	7.1	3.2	16	0.014	58	70
1LE1001-1CB0Q-QQQQ-Z F90	2.3	6.9	2.9	16	0.02698	64	76
1LE1001-1CB2Q-QQQQ-Z F90	2.3	6.9	2.9	16	0.03353	64	76
1LE1001-1DB2Q-QQQQ-Z F90	2.2	6.7	2.8	16	0.06495	65	77
1LE1001-1DB4Q-QQQQ-Z F90	2.5	7.3	3	16	0.08281	65	77
6-pole – 1000 rpm at 50 Hz, 1200 rpm at 60 Hz							
1LE1001-1AC4Q-QQQQ-Z F90	2	6.2	2.9	16	0.0113	59	71
1LE1001-1BC2Q-QQQQ-Z F90	2.1	6	3.1	16	0.0139	57	69
1LE1001-1CC0Q-QQQQ-Z F90	1.6	5.6	2.6	13	0.02371	63	75
1LE1001-1CC2Q-QQQQ-Z F90	1.6	5.6	2.5	13	0.02918	63	75
1LE1001-1CC3Q-QQQQ-Z F90	1.9	6.1	2.8	16	0.03673	63	75
1LE1001-1DC2Q-QQQQ-Z F90	1.8	6.3	2.8	16	0.0754	67	79
1LE1001-1DC4Q-QQQQ-Z F90	1.7	6.2	2.7	16	0.0975	67	79
8-pole – 750 rpm at 50 Hz, 900 rpm at 60 Hz							
1LE1001-1AD4Q-QQQQ-Z F90	1.6	4	2.8	13	0.0086	60	72
1LE1001-1AD5Q-QQQQ-Z F90	1.8	4	2.8	13	0.0109	60	72
1LE1001-1BD2Q-QQQQ-Z F90	1.4	4.2	2.4	13	0.014	63	75
1LE1001-1CD0Q-QQQQ-Z F90	1.4	3.6	1.8	10	0.02698	63	75
1LE1001-1CD2Q-QQQQ-Z F90	1.4	5	2.4	10	0.03463	63	75
1LE1001-1DD2Q-QQQQ-Z F90	1.8	4.3	2	13	0.0649	63	75
1LE1001-1DD3Q-QQQQ-Z F90	2.1	4.4	2.1	13	0.0828	63	75
1LE1001-1DD4Q-QQQQ-Z F90	1.9	4.5	2.1	13	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
1LE1001-1A...Q-Q...-Z F90	100 L	○	○	○	○	✓	✓	✓	✓
1LE1001-1B...Q-Q...-Z F90	112 M	○	○	○	○	✓	✓	✓	✓
1LE1001-1C...Q-Q...-Z F90	132 S/M	○	○	○	○	✓	✓	✓	✓
1LE1001-1D...Q-Q...-Z F90	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" under "Voltages").

Motor type	Frame size	Position 14: Types of construction (type letter)										
		Without 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 protective cover ³⁾	Flange size	IM B5 ^{3) 4)}	IM V1 without protective cover ³⁾	IM V3 ³⁾	IM B35
		A	T	U	V	D	C		F	G	H	J
		Order No. supplement -Z with order code										
		-	-	-	-	-	-		-	-	-	-
1LE1001-1A...-Q...-Z F90	100 L	□	□	□	□	□	□	FF 215	✓	✓	✓	✓
1LE1001-1B...-Q...-Z F90	112 M	□	□	□	□	□	□	FF 215	✓	✓	✓	✓
1LE1001-1C...-Q...-Z F90	132 S/M	□	□	□	□	□	□	FF 265	✓	✓	✓	✓
1LE1001-1D...-Q...-Z F90	160 M/L	□	□	□	□	□	□	FF 300	✓	✓	✓	✓

Motor type	Frame size	Position 14: Types 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 protective cover ³⁾	IM B34	Flange size	IM B14 ^{3) 5)}	IM V19 ³⁾	IM V18 without protective 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
1LE1001-1A...-Q...-Z F90	100 L	FT 130	✓	✓	✓	✓	FT 165	✓	✓	✓	✓
1LE1001-1B...-Q...-Z F90	112 M	FT 130	✓	✓	✓	✓	FT 165	✓	✓	✓	✓
1LE1001-1C...-Q...-Z F90	132 S/M	FT 165	✓	✓	✓	✓	FT 215	✓	✓	✓	✓
1LE1001-1D...-Q...-Z F90	160 M/L	FT 215	✓	✓	✓	✓	-	-	-	-	-

□ Standard version

✓ With extra price

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⁾
Order code		A	B	C	F	Z Q2A	Z Q3A
1LE1001-1A...-□-Z F90	100 L	□	✓	✓	✓	✓	✓
1LE1001-1B...-□-Z F90	112 M	□	✓	✓	✓	✓	✓
1LE1001-1C...-□-Z F90	132 S/M	□	✓	✓	✓	✓	✓
1LE1001-1D...-□-Z F90	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
1LE1001-1A ...-...□-Z F90	100 L	□	✓	✓	✓
1LE1001-1B ...-...□-Z F90	112 M	□	✓	✓	✓
1LE1001-1C ...-...□-Z F90	132 S/M	□	✓	✓	✓
1LE1001-1D ...-...□-Z F90	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.