Selection and ordering data

P_{rated}, 50 Hz	P_{rated}, 60 Hz [1]	Frame size	Operating values at rated output: n_{rated}, 50 Hz	T_{rated}, 50 Hz	IE class	η_{rated}, 50 Hz, 4/4	η_{rated}, 50 Hz, 3/4	η_{rated}, 50 Hz, 2/4	cos-φ_{rated}, 50 Hz, 4/4	I_{rated}, 50 Hz, 400 V	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	L_{pfA}, 50 Hz	L_{WA}, 50 Hz	Aluminum series 1LE1002 – *IE1 version in acc. with IEC 60034-30* Order No.	$m_{IM\ B3}$	J	Torque class
kW	kW	FS	rpm	Nm		%	%	%		A				dB(A)	dB(A)		kg	kgm²	CL
• Cooling: Self-ventilated (IC 411) or with order code F90 forced-air cooled without external fan and fan cover (IC 416) • Efficiency: Standard Efficiency IE1, service factor (SF) 1.1 • Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)																			
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz [1]																			
3	**3.45**	**100 L**	2835	10	IE1	81.5	82.8	82.1	0.87	6.1	3.2	6.2	2.9	67	79	**1LE1002-1AA4■-■■■■**	20	0.0034	16
4	**4.55**	**112 M**	2930	13	IE1	83.1	83.8	82.2	0.86	8.1	2.7	7.3	3.7	69	81	**1LE1002-1BA2■-■■■■**	25	0.0067	16
5.5	**6.3**	**132 S**	2905	18	IE1	84.7	85.7	85.0	0.89	10.5	1.9	5.6	2.5	68	80	**1LE1002-1CA0■-■■■■**	35	0.013	16
7.5	**8.6**	**132 S**	2925	24	IE1	86.0	86.9	85.8	0.87	14.5	2.1	6.3	3.2	68	80	**1LE1002-1CA1■-■■■■**	40	0.016	16
11	**12.6**	**160 M**	2925	36	IE1	87.6	87.6	86.1	0.85	21.5	2.0	5.8	2.6	70	82	**1LE1002-1DA2■-■■■■**	60	0.030	16
15	**17.3**	**160 M**	2930	49	IE1	88.7	89.0	88.0	0.84	29	2.5	6.1	3.1	70	82	**1LE1002-1DA3■-■■■■**	68	0.036	16
18.5	**21.3**	**160 L**	2935	60	IE1	89.3	90.0	89.7	0.86	35	2.5	7.0	3.2	70	82	**1LE1002-1DA4■-■■■■**	78	0.044	16
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz [1]																			
2.2	**2.55**	**100 L**	1425	15	IE1	79.7	80.5	78.5	0.81	4.9	2.2	5.1	2.3	60	72	**1LE1002-1AB4■-■■■■**	18	0.0059	16
3	**3.45**	**100 L**	1425	20	IE1	81.5	83.0	82.3	0.85	6.3	2.4	5.4	2.6	60	72	**1LE1002-1AB5■-■■■■**	22	0.0078	16
4	**4.55**	**112 M**	1435	27	IE1	83.1	84.5	84.0	0.85	8.2	2.2	5.3	2.6	58	70	**1LE1002-1BB2■-■■■■**	27	0.010	16
5.5	**6.3**	**132 S**	1450	36	IE1	84.7	85.7	84.9	0.82	11.2	2.3	5.7	2.7	64	76	**1LE1002-1CB0■-■■■■**	38	0.019	16
7.5	**8.6**	**132 M**	1450	49	IE1	86.0	86.9	86.3	0.82	15.2	2.6	6.6	3.1	64	76	**1LE1002-1CB2■-■■■■**	44	0.024	16
11	**12.6**	**160 M**	1460	72	IE1	87.6	88.0	86.6	0.82	22	2.3	6.4	3.1	65	77	**1LE1002-1DB2■-■■■■**	62	0.044	16
15	**17.3**	**160 L**	1460	98	IE1	88.7	89.3	88.3	0.82	30	2.5	7.0	3.4	65	77	**1LE1002-1DB4■-■■■■**	73	0.056	16
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz [1]																			
1.5	**1.75**	**100 L**	940	15	IE1	75.2	76.0	72.4	0.74	3.9	2.0	4.0	2.2	59	71	**1LE1002-1AC4■-■■■■**	19	0.0065	16
2.2	**2.55**	**112 M**	930	23	IE1	77.7	78.8	76.9	0.75	5.4	2.3	4.1	2.5	57	69	**1LE1002-1BC2■-■■■■**	25	0.0092	16
3	**3.45**	**132 S**	955	30	IE1	79.7	80.2	77.7	0.74	7.3	2.0	4.6	2.6	63	75	**1LE1002-1CC0■-■■■■**	34	0.017	16
4	**4.55**	**132 M**	950	40	IE1	81.4	82.9	82.1	0.76	9.3	2.1	4.7	2.5	63	75	**1LE1002-1CC2■-■■■■**	39	0.021	16
5.5	**6.3**	**132 M**	950	55	IE1	83.1	84.6	84.0	0.75	12.7	2.5	5.2	2.8	63	75	**1LE1002-1CC3■-■■■■**	48	0.027	16
7.5	**8.6**	**160 M**	970	74	IE1	84.7	85.4	85.0	0.73	17.5	2.1	5.5	2.9	67	79	**1LE1002-1DC2■-■■■■**	72	0.056	16
11	**12.6**	**160 L**	965	109	IE1	86.4	86.4	85.4	0.77	24	1.9	5.9	2.7	67	79	**1LE1002-1DC4■-■■■■**	92	0.078	16
8-pole: 750 rpm at 50 Hz, 900 rpm at 60 Hz [1]																			
0.75	**0.86**	**100 L**	705	10	–	62.6	60.8	53.9	0.62	3.0	1.9	3.0	2.2	60	72	**1LE1002-1AD4■-■■■■**	17	0.0056	16
1.1	**1.27**	**100 L**	705	15	–	65.5	64.2	60.0	0.63	3.9	2.0	3.2	2.3	60	72	**1LE1002-1AD5■-■■■■**	22	0.0078	16
1.5	**1.75**	**112 M**	700	20	–	71.6	72.2	68.5	0.65	4.7	1.6	3.3	1.9	63	75	**1LE1002-1BD2■-■■■■**	29	0.0094	16
2.2	**2.55**	**132 S**	715	29	–	76.8	77.4	75.2	0.66	6.3	1.7	3.9	2.4	63	75	**1LE1002-1CD0■-■■■■**	37	0.019	16
3	**3.45**	**132 M**	715	40	–	76.6	77.8	75.8	0.66	8.6	1.8	3.9	2.2	63	75	**1LE1002-1CD2■-■■■■**	44	0.024	16
4	**4.55**	**160 M**	720	53	–	78.3	78.5	75.6	0.69	10.7	1.7	3.8	2.3	63	75	**1LE1002-1DD2■-■■■■**	60	0.044	16
5.5	**6.3**	**160 M**	720	73	–	81.7	82.5	81.4	0.70	13.9	1.6	4.0	2.2	63	75	**1LE1002-1DD3■-■■■■**	72	0.056	16
7.5	**8.6**	**160 L**	715	100	–	83.5	84.5	83.6	0.70	18.5	1.7	3.8	2.2	63	75	**1LE1002-1DD4■-■■■■**	91	0.077	16

Voltages				No. of poles	Frame size	Motor type	Version					Order code(s)
50 Hz	230 VΔ/400 VY	60 Hz [1]	460 VY	2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	**Standard**	**2**	**2**			–
50 Hz	400 VΔ/690 VY	60 Hz [1]	460 VΔ	2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	**Standard**	**3**	**4**			–
50 Hz	500 VY			2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	Without additional charge	**2**	**7**			–
50 Hz	500 VΔ			2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	Without additional charge	**4**	**0**			–
Further voltages [1]				For add. charges, code numbers, order codes and descr., see suppl. and spec. versions.				**9**	**0**			. . .
Types of construction				No. of poles	Frame size	Motor type	Version					Order code(s)
Without flange		IM B3 [2]		2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	**Standard**			**A**		–
With flange		IM B5 [2]		2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	With additional charge			**F**		–
With standard flange		IM B14 [2]		2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	With additional charge			**K**		–
Further types of construction				For add. charges, code letters and descriptions, see suppl. and special versions.						■		. . .
Motor protection				No. of poles	Frame size	Motor type	Version					Order code(s)
Without				2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	**Standard**				**A**	–
PTC thermistor with 3 temperature sensors				2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	With additional charge				**B**	–
Further motor protection				For add. charges, code letters and descriptions, see suppl. and special versions.							■	. . .
Connection box position				No. of poles	Frame size	Motor type	Version					Order code(s)
Connection box at top				2, 4, 6, 8	100 L ... 160 L	1LE1002-1A ... -1D	**Standard**					–
Further connection box positions				For add. code numbers, codes and descriptions, see suppl. and special versions.							**4**	
Special versions				No. of poles	Frame size	Motor type						Order code(s)
Forced-air cooled without ext. fan/fan cover (IC 416)					100 L ... 160 L	1LE1002-1A ... -1D	**1LE1002- . . . . ■-■■■■-Z**					**F90** +. . .+. . .+. . .
Options				For add. charges, order codes and descr., see suppl. and spec. versions.			**1LE1002- . . . . ■-■■■■-Z**					. . .+. . .+. . .+. . .

1) Operating values at rated output for 60 Hz are available on request.

2) Types derived from IM B3 (IM B6/7/8, IM V6 and IM V5), from IM B5 (IM V3 and IM V1) and from IM B14 (IM V19 and IM V18) are possible, provided that no requirements exist for condensation drainage holes (H03) and stamping of the type on the rating plate. The basic type IM B3, IM B5 or IM B14 is stamped as standard on the rating plate. When ordering with condensation drainage holes (H03), the type must be specified.