ACA ALUMINUM HOUSING IE2

DIN EN 60034-30 | High Efficiency (HE)

2 poles, idle speed 3000 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 A-2	0.75 / 0.90	2875 / 3450	77.4	77.4	75.9	0.83	1.69	2.5	6.8	2.3	2.3	0.0008	8.9
80 B-2	1.10 / 1.32	2875 / 3450	79.6	79.6	78.0	0.84	2.37	3.7	7.1	2.3	2.3	0.0009	10.0
90 S-2	1.50 / 1.80	2890 / 3468	81.3	81.3	79.7	0.84	3.17	5.0	7.3	2.3	2.3	0.0012	12.5
90 L-2	2.20 / 2.64	2890 / 3468	83.2	83.2	81.5	0.85	4.49	7.3	7.6	2.3	2.3	0.0015	15.2
100 L-2	3.00 / 3.60	2891 / 3469	84.6	84.6	82.9	0.87	5.88	9.9	7.8	2.2	2.3	0.0028	21.5
112 M-2	4.00 / 4.80	2914 / 3496	85.8	85.8	84.1	0.88	7.65	13.1	8.1	2.2	2.3	0.0050	26.0
132 SA-2	5.50 / 6.60	2937 / 3524	87.0	87.0	85.3	0.86	10.61	17.9	8.2	2.2	2.3	0.0100	38.2
132 SB-2	7.50 / 9.00	2940 / 3528	88.1	88.1	86.3	0.88	13.96	24.4	7.8	2.2	2.3	0.0120	44.0

4 poles, idle speed 1500 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 B-4	0.75 / 0.90	1400 / 1680	79.6	79.6	78.0	0.76	1.79	5.1	6.4	2.3	2.3	0.0022	10.8
90 S-4	1.10 / 1.32	1440 / 1728	81.4	81.4	79.8	0.76	2.57	7.3	6.6	2.3	2.3	0.0024	13.8
90 L-4	1.50 / 1.80	1445 / 1734	82.8	82.8	81.1	0.77	3.40	9.9	6.7	2.3	2.3	0.0030	15.8
100 LA-4	2.20 / 2.64	1440 / 1728	84.3	84.3	82.6	0.81	4.65	14.6	7.3	2.3	2.3	0.0056	22.4
100 LB-4	3.00 / 3.60	1440 / 1728	85.5	85.5	83.8	0.82	6.18	19.9	7.5	2.3	2.3	0.0068	24.0
112 M-4	4.00 / 4.80	1445 / 1734	86.6	86.6	84.9	0.82	8.13	26.4	7.5	2.3	2.3	0.0095	35.0
132 S-4	5.50 / 6.60	1455 / 1746	87.7	87.7	85.9	0.83	10.91	36.1	7.5	2.0	2.3	0.0220	43.0
132 M-4	7.50 / 9.00	1455 / 1746	88.7	88.7	86.9	0.84	14.53	49.2	7.3	2.0	2.3	0.0300	54.0

ACA ALUMINUM HOUSING IE2

DIN EN 60034-30 | High Efficiency (HE)

6 poles, idle speed 1000 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
90 S-6	0.75 / 0.90	934 / 1120	75.9	75.9	74.4	0.72	1.98	7.7	5.3	2.0	2.1	0.0030	12.5
90 L-6	1.10 / 1.32	945 / 1134	78.1	78.1	76.5	0.72	2.82	11.1	5.0	2.0	2.1	0.0040	16.6
100 L-6	1.50 / 1.80	945 / 1134	79.8	79.8	78.2	0.72	3.77	15.2	5.5	2.0	2.1	0.0082	22.5
112 M-6	2.20 / 2.64	960 / 1152	81.8	81.8	80.2	0.76	5.11	21.9	5.5	2.0	2.1	0.0140	27.5
132 S-6	3.00 / 3.60	964 / 1156	83.3	83.3	81.6	0.76	6.84	29.7	6.5	2.0	2.1	0.0290	41.5
132 MA-6	4.00 / 4.80	965 / 1158	84.6	84.6	82.9	0.76	8.98	39.6	6.5	2.0	2.1	0.0360	49.0
132 MB-6	5.50 / 6.60	965 / 1158	86.0	86.3	84.3	0.77	11.99	54.4	6.5	2.0	2.1	0.0400	52.5

8 poles, idle speed 750 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
100 LA-8	0.75 / 0.90	685 / 822	66.2	66.2	64.9	0.67	2.44	10.5	4.0	1.8	2.0	0.0092	25.2
100 LB-8	1.10 / 1.32	685 / 822	70.8	70.8	69.4	0.69	3.25	15.3	5.0	1.8	2.0	0.0120	26.5
112 M-8	1.50 / 1.80	695 / 834	74.1	74.1	72.6	0.70	4.17	20.6	5.0	1.8	2.0	0.0246	33.5
132 S-8	2.20 / 2.64	710 / 852	77.6	77.6	76.0	0.71	5.76	29.6	6.0	1.8	2.0	0.0315	43.2
132 M-8	3.00 / 3.60	710 / 852	80.0	80.0	78.4	0.73	7.41	40.4	6.0	1.8	2.0	0.0396	51.5

PROGRESSIVE

IE2 motors with increased power in a smaller housing

2 poles, idle speed 3000 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 C-2	1.50	2850	81.3	81.6	79.7	0.84	3.2	5.0	6.5	2.2	2.3	0.0011	13.0
90 LC-2	3.00	2850	84.6	84.9	82.9	0.87	5.9	10.1	7.0	2.2	2.3	0.0026	17.0
100 LC-2	4.00	2870	85.8	86.1	84.1	0.88	7.6	13.3	7.5	2.2	2.3	0.0048	22.5
112 MC-2	5.50	2900	87.0	87.3	85.3	0.88	10.4	18.1	7.5	2.2	2.3	0.0069	30.5
132 MC-2	11.0	2910	89.4	89.8	87.6	0.89	20.0	36.1	7.8	2.2	2.3	0.0170	49.0
160 LC-2	22.0	2940	91.3	91.7	89.5	0.89	39.1	71.5	7.8	2.2	2.3	0.0600	145
180 MC-2	30.0	2940	92.0	92.4	90.2	0.89	52.9	97.5	7.5	2.0	2.3	0.0930	190
200 LC-2	45.0	2960	92.9	93.3	91.0	0.90	77.7	145.2	7.8	2.2	2.3	0.1680	290
225 MC-2	55.0	2960	93.2	93.6	91.3	0.90	94.6	177.5	7.5	2.1	2.3	0.2570	320
250 MC-2	75.0	2970	93.8	94.2	91.9	0.90	128.2	241.2	7.2	2.1	2.3	0.3500	432
280 MC-2	110.0	2975	94.3	94.7	92.4	0.90	187.1	353.2	7.5	2.0	2.3	0.7270	800

4 poles, idle speed 1500 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
80 C-4	1.10	1400	81.4	81.7	79.8	0.77	2.5	7.5	6.5	2.2	2.3	0.0024	10.3
90 LC-4	2.20	1420	84.3	84.6	82.6	0.81	4.7	14.8	7.0	2.2	2.3	0.0053	20.3
100 LC-4	4.00	1435	86.6	86.9	84.9	0.82	8.1	26.6	7.0	2.2	2.3	0.0095	30.5
112 MC-4	5.50	1440	87.7	88.0	85.9	0.82	11.0	36.5	7.5	2.2	2.3	0.0110	36.5
132 MC-4	11.0	1460	89.8	90.1	88.0	0.84	21.0	72.0	7.5	2.2	2.3	0.0395	56.0
160 LC-4	18.5	1460	91.2	91.5	89.4	0.86	33.1	121.0	7.5	2.1	2.3	0.0980	150
180 MC-4	22.0	1460	91.6	91.9	89.8	0.86	40.3	143.9	7.5	2.2	2.3	0.1600	134
180 LC-4	30.0	1470	92.3	92.6	90.5	0.86	54.5	194.9	7.5	2.2	2.3	0.1820	205
200 LC-4	37.0	1470	92.7	93.0	90.8	0.86	67.0	240.4	7.5	2.2	2.3	0.2950	280
225 MC-4	55.0	1470	93.5	93.8	91.6	0.86	98.7	357.4	7.2	2.2	2.3	0.5300	346
250 MC-4	75.0	1480	94.0	94.3	92.1	0.87	132.4	484.0	7.2	2.2	2.3	0.7200	440
280 MC-4	110.0	1485	94.5	94.8	92.6	0.88	190.9	707.5	7.2	2.2	2.3	1.5900	830
315 MC-4	200.0	1485	95.1	95.4	93.2	0.89	341.1	1286.4	7.5	2.2	2.3	4.9000	1150

PROGRESSIVE

IE2 motors with increased power in a smaller housing

6 poles, idle speed 1000 rpm — 400 V / 50 Hz, 460 V / 60 Hz

Frame size	Power at 50/60 Hz	Rated speed at 50/60 Hz	Efficiency at 100% load	75%	50%	Power factor at 50/60 Hz	Rated current at 400 V / 50 Hz	Rated torque	Starting current to Rated current	Starting torque to Rated torque	Breakdown torque to Rated torque	Moment of inertia	Weight
Type	kW	rpm	%	%	%	cos φ	A	Nm	Ia/In	Ta/Tn	Tk/Tn	J [kgm²]	kg
90 LC-6	1.50	920	79.8	80.0	78.2	0.74	3.7	15.6	6.0	2.0	2.1	0.0072	20.5
100 LC-6	2.20	940	81.8	82.0	80.2	0.74	5.2	22.4	6.5	2.1	2.2	0.0130	25.0
112 MC-6	3.00	940	83.3	83.5	81.6	0.76	6.8	30.5	6.5	2.0	2.1	0.0200	39.0
112 MD-6	4.00	950	84.6	84.9	82.9	0.76	9.0	40.2	6.5	2.0	2.1	0.0250	46.0
132 MC-6	7.50	960	87.2	87.5	85.5	0.77	16.1	74.6	6.5	2.1	2.1	0.0510	65.0
160 LC-6	15.0	965	89.7	90.0	87.9	0.79	30.6	148.5	7.0	2.1	2.1	0.1210	160
180 LC-6	18.5	975	90.4	90.7	88.6	0.81	35.5	151.2	7.0	2.2	2.1	0.2530	203
200 LC-6	30.0	975	91.7	92.1	89.9	0.82	57.6	293.9	7.0	2.1	2.1	0.4200	450
250 MC-6	45.0	980	92.7	93.0	90.8	0.85	82.4	438.6	7.0	2.1	2.1	1.0500	580
280 MC-6	75.0	985	93.7	94.0	91.8	0.86	134.3	727.2	7.0	2.1	2.1	1.9800	270