

Technical data

High output synchronous reluctance motors, 3000 and 2100 r/min

This table presents technical performance data for the currently available high output motor and drive packages. The variant codes and construction details for M3AL and M3BL synchronous reluctance motors are based on M3AA and M3BP process performance motors respectively.

IP 55 - IC 411 - Insulation class F, temperature rise class F

Output kW	Motor type	Product code	Speed n_N r/min	Motor efficiency with VSD supply	Current I_N A	Torque		Max speed, n_{max} r/min	Inertia J / kgm ²	Weight kg	Suggested ACS850 frequency converter for no overload pump and fan use	Suggested ACS880 frequency converter for no overload pump and fan use
						T_n / Nm	T_{OL} / T_N					
3000 r/min (100 Hz)			400 V network									
1.5	M3AL 90L 4	3GAL092507-●●B	3000	84.2	3.9	4.8	1.5	4200	0.002	13	ACS850-04-04A8-5	ACS880-01-03A9-3
2.2	M3AL 90LA 4	3GAL092517-●●B	3000	85.9	5.6	7.0	1.5	4200	0.00202	13	ACS850-04-06A0-5	ACS880-01-05A8-3
3	M3AL 90LB 4	3GAL092527-●●B	3000	87.1	7.5	9.6	1.5	4200	0.00276	16	ACS850-04-08A0-5	ACS880-01-07A5-3
4	M3AL 90LC 4	3GAL092537-●●B	3000	88.1	9.8	12.7	1.5	4200	0.00276	16	ACS850-04-010A-5	ACS880-01-09A8-3
5.5	M3AL 90LD 4	3GAL092547-●●B	3000	89.2	13.4	17.5	1.5	4200	0.00351	17	ACS850-04-014A-5	ACS880-01-14A3-3
7.5	M3AL 100LB 4	3GAL102527-●●B	3000	90.1	16.9	23.9	1.5	4200	0.00565	23	ACS850-04-018A-5	ACS880-01-17A7-3
11	M3AL 112MB 4	3GAL112327-●●B	3000	91.2	25.0	35.0	1.5	4200	0.00813	33	ACS850-04-025A-5	ACS880-01-25A5-3
15	M3AL 132SMB 4	3GAL132227-●●B	3000	91.9	33.5	47.8	1.5	4200	0.0184	47	ACS850-04-035A-5	ACS880-01-035A-3
18.5	M3AL 132SMC 4	3GAL132237-●●B	3000	92.4	41.1	58.9	1.5	4200	0.0226	57	ACS850-04-044A-5	ACS880-01-043A-3
22	M3AL 132SMD 4	3GAL132247-●●B	3000	92.7	48.7	70.0	1.5	4200	0.0226	57	ACS850-04-050A-5	ACS880-01-050A-3
30	M3AL 132SME 4	3GAL132257-●●B	3000	93.3	68.7	95.5	1.5	4200	0.277	80	ACS850-04-078A-5	ACS880-01-069A-3
37	M3AL 132SMF 4	3GAL132267-●●B	3000	93.7	84.4	118	1.5	4200	0.0332	89	ACS850-04-094A-5	ACS880-01-085A-3
33	M3BL 160MLB 4	3GBL162427-●●B	3000	93.5	76.7	105	1.5	4200	0.0579	130	ACS850-04-078A-5	ACS880-01-085A-3
40	M3BL 160MLC 4	3GBL162437-●●B	3000	93.9	92.5	127	1.5	4200	0.0702	157	ACS850-04-094A-5	ACS880-01-103A-3
45	M3BL 160MLE 4	3GBL162457-●●B	3000	94.6	103	143	1.5	4200	0.0864	174	ACS850-04-103A-5	ACS880-01-103A-3
62	M3BL 200MLA 4	3GBL202417-●●B	3000	95.1	144	197	1.5	4200	0.242	279	ACS850-04-144A-5	ACS880-01-173A-3
72	M3BL 200MLC 4	3GBL202437-●●B	3000	95.4	166	229	1.5	4200	0.287	304	ACS850-04-166A-5	ACS880-01-173A-3
97	M3BL 250SMA 4	3GBL252217-●●B	3000	95.2	224	309	1.5	3600	0.499	396	ACS850-04-225A-5	ACS880-01-245A-3
112	M3BL 250SMB 4	3GBL252227-●●B	3000	95.3	259	357	1.5	3600	0.575	428	ACS850-04-260A-5	ACS880-01-290A-3
125	M3BL 250SMC 4	3GBL252237-●●B	3000	95.5	288	398	1.5	3600	0.633	454	ACS850-04-290A-5	ACS880-01-290A-3