

## **SYM IPM**

Synchronmotoren mit innenliegenden Magneten  
Synchronous Motors with Interior Magnets



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# Hohes Drehmoment bei niedriger Rotortemperatur High Torque at Low Rotor Temperature



### SYM IPM-Baureihe:

- ✦ 40% mehr Drehmoment als ASM
- ✦ 140 m/s Umfangsgeschwindigkeit
- ✦ niedrige Rotortemperaturen
- ✦ grosser Drehzahlbereich konstanter Leistung
- ✦ robuste Bauweise
- ✦ grosse Rotorbohrung
- ✦ keine Rotorbearbeitung notwendig

### SYM IPM series:

- ✦ 40% more torque compared to IM
- ✦ 140 m/s circumferential speed
- ✦ low rotor temperatures
- ✦ wide speed range with constant power
- ✦ robust design
- ✦ large rotor bore
- ✦ no rotor machining necessary

Types	STATOR OD Ø mm	STATOR TOTAL LENGTH mm	ROTOR ID Ø mm	RATED TORQUE Nm	RATED POWER kW	RATED SPEED 1/min	MAXIMUM SPEED 1/min
mSpW 8/6-4-s1r3 ENCA	80	109	37	3.8	5.6	14'000	56'000
mSpW 8/9-4-s1r3 ENCA	80	139	37	5.6	8.2	14'000	56'000
mSpW 8/11-4-s1r3 ENCA	80	159	37	6.8	10.0	14'000	56'000
mSpW 9/6-4-s4r4 ENCA	90	111	43	4.6	5.8	12'000	45'000
mSpW 9/8-4-s4r4 ENCA	90	131	43	6.2	7.8	12'000	45'000
mSpW 9/10-4-s4r4 ENCA	90	151	43	7.8	9.8	12'000	45'000
mSpW 10.6/6-4-s1r1 ALKA	106	123	50	9.8	10.3	10'000	40'000
mSpW 10.6/8-4-s1r1 ALKA	106	143	50	13.7	14.3	10'000	40'000
mSpW 10.6/10-4-s1r1 ALKA	106	163	50	17.4	18.2	10'000	40'000
mSpW 12/6-4-s2r3 ALKA	120	117	55	11.5	10.8	9'000	36'000
mSpW 12/9-4-s2r3 ALKA	120	147	55	17.5	16.5	9'000	36'000
mSpW 12/12-4-s2r3 ALKA	120	177	55	24.0	22.6	9'000	36'000
mSpW 12/15-4-s2r3 ALKA	120	207	55	30.0	28.3	9'000	36'000
mSpW 13.5/9-4-s5r4 ALKA	135	151	65	21.0	17.6	8'000	30'000
mSpW 13.5/10-4-s5r4 ALKA	135	161	65	23.5	19.7	8'000	30'000
mSpW 13.5/15.5-4-s5r4 ALKA	135	216	65	37.0	31.0	8'000	30'000
mSpW 15/10-4-s2r3 ALKA	150	172	70	38.5	32.3	8'000	30'000
mSpW 15/12-4-s2r3 ALKA	150	192	70	46.0	38.5	8'000	30'000
mSpW 15/15-4-s2r3 ALKA	150	222	70	58.5	49.0	8'000	30'000
mSpW 16/8-4-s1r2 ALKA	160	160	80	36.0	26.4	7'000	26'000
mSpW 16/11-4-s1r2 ALKA	160	190	80	50.0	36.7	7'000	26'000
mSpW 16/15-4-s1r2 ALKA	160	230	80	70.5	51.7	7'000	26'000
mSpW 16/20-4-s1r2 ALKA	160	280	80	92.0	67.4	7'000	26'000
mSpW 17/10-4-s1r4 ALKA	170	184	85	53.0	33.3	6'000	24'000
mSpW 17/15-4-s1r4 ALKA	170	234	85	81.0	50.9	6'000	24'000
mSpW 17/18-4-s1r4 ALKA	170	264	85	98.0	61.6	6'000	24'000
mSpW 17/20-4-s1r4 ALKA	170	284	85	109.5	68.8	6'000	24'000
mSpW 17/25-4-s1r4 ALKA	170	334	85	137.5	86.4	6'000	24'000
mSpW 18/8-4-s1r2 ALKA	180	170	90	50.0	31.4	6'000	23'000
mSpW 18/11-4-s1r2 ALKA	180	200	90	70.0	44.0	6'000	23'000
mSpW 18/15-4-s1r2 ALKA	180	240	90	97.5	61.3	6'000	23'000
mSpW 18/20-4-s1r2 ALKA	180	290	90	132.0	82.9	6'000	23'000
mSpW 20/7-4-s3r3 ALKA	200	157	100	53.5	28.0	5'000	21'000
mSpW 20/11-4-s3r3 ALKA	200	197	100	86.0	45.0	5'000	21'000
mSpW 20/16-4-s3r3 ALKA	200	247	100	131.0	68.6	5'000	21'000
mSpW 20/18-4-s3r3 ALKA	200	267	100	148.0	77.5	5'000	21'000
mSpW 20/26-4-s3r3 ALKA	200	347	100	216.5	113.4	5'000	21'000



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