



ASM

Rugged PMAC Motors

In the demanding world of construction and mobile equipment, reliable power is essential. That's why our ASM electric motor delivers industry-leading performance with efficiency, durability, and versatility. Perfect for a wide range of applications, including: Industrial equipment, Marine, AGVs, and more.

Unmatched Reliability – Engineered for consistent performance and long-lasting durability. With advanced technology and robust construction, it ensures minimal maintenance and maximum uptime.

Energy Efficient – Featuring a permanent magnet design, ASM motors generate more power while consuming less Power, reducing operational costs.

Low Maintenance – minimal moving parts and a refined build, the ASM motors ensure long-lasting performance with reduced downtime.

Quiet & Smooth Operation – Ideal for environments where noise reduction is crucial, it operates smoothly and quietly, ensuring a comfortable and productive work environment

Compact & Lightweight – Easy to integrate into any application. Lightweight yet powerful, it offers flexibility and ease of installation without compromising on performance

Models

103-2A

106-4A

109-2A

112-2A

115-4A





Motor Data

ASM Model Number				103-2A	106-4A	109-2A	112-2A	115-4A
Performance	Tq S2-2m	2 min torque	Nm	6.6	14	21.6	28.7	35.5
			Lb-Ft	4.87	10.33	15.9	21.17	26.18
	Tq S2-60m	60 min torque	Nm	2.85	5.3	7.4	9.1	11.3
			Lb-Ft	2.1	3.91	5.5	6.71	8.33
	Kb	Back EMF Constant (22°C)	Vms/kRPM	4.3	10.2	6.5	8.2	11.1
			Vpk/rad/sec	0.058	0.138	0.087	0.111	0.150
Kt (loaded)	60min Kt (Hot)	N-m/Arms	0.061	0.144	0.92	0.116	0.153	
		Lb-Ft/Arms	0.045	0.106	0.068	0.086	0.113	
Electrical	Rm	Resistance (L-L)	mΩ	28	61.3	15.1	18.6	23.2
	Lm	Inductance (L-L) avg	μH	124	313	93	95.0	140
	I(2m)	2 min current	Arms	100	88	175	220	200
	I(60m)	60 min current	Arms	45	36	75	78	73
	I(max)	Max safe inter- mittent current	Arms	100	88	88	220	200
Mechanical	Nmax	Max Rated Speed	RPM	5500	5500	5500	5500	5500
	Tmax	Max continuous Temperature rating	°C	155	155	155	155	155
	Rth	Thermal Resis- tance	°C/Watt	0.825	0.689	0.653	0.633	0.633
	Poles	Number Of Motor Poles	#	12	12	12	12	12
Dimensions	Length		mm	108	138	168	198	228
	Width		mm	110	110	110	110	110
	Height		mm	110	110	110	110	110

Recommended Inmotion Motor Controller - ASM

Motor	24 Volts	48 Volts	96 Volts
103-2A	ACS24W24	ACS48W18	ACS96W11
106-4A	ACS24W24	ACS48W18	ACS96M23
109-2A	ACS24W24	ACS48S28	ACS96M23
115-4A	ACS24W24	ACS48S28	ACS96M23