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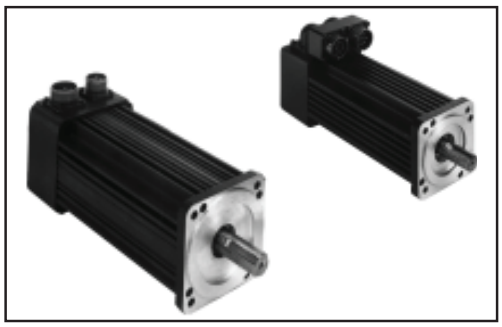
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Find the *Danaher Motion / Superior Electric SLO-SYN S115-2H-A4* at our website: *Click HERE*

SLO-SYN® 2000

Motion Controls

SLO-SYN Brushless Servo Motors



SLO-SYN Brushless ***Servo Motors*** employ resolver feedback and are precisely matched to our line of Servo amplifiers. With 23 standard motors to choose from, and torque ratings from 7.44 in-lb to 396 in-lb continuous (up to 834 in-lb peak) you can select the Servo Motor that most closely matches your performance requirements.

Superior motors are U.L. recognized, and feature high energy, neodymium-iron-boron magnets. Designed to withstand the rigors of harsh industrial environments, our motors are made with Class H insulation and are built to IP65 standards. IP67 construction is also available at a small extra charge for environments subject to heavy wash-down.

To expand your flexibility while helping you obtain enhanced on-the-job performance, Servo motors come with several optional features and configurations:

- Brakes, encoders, additional resolvers, and/or tachometers
- Special sealing and finishes
- Special shaft modifications

In addition a complete line of in-line and right angle planetary gearheads are available for use with all SLO-SYN Servo Motors. These gearheads feature high efficiency, high torque and low backlash while providing up to 8000 in-lb (904 Nm) continuous output torque, 15,000 in-lb (169 Nm) peak. Eight ratios from 3:1 to 100:1 are available to meet all applications.

Features

Servo Motors

- Neodymium-Iron-Boron (Ne Fe B) Magnets
- Built-in Resolver
- Standard NEMA Mounting
- IP65 Sealing (Standard) IP67 Optional
- UL Recognized
- Over-Temperature Sensing
- Highest Acceleration/Deceleration Capabilities
- Designed for Operation in Harsh Industrial Environments
- Long Life Design
- Smooth Low-speed Performance
- Small Package
- Numerous Optional Configurations

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SERVO MOTOR RATING and SPECIFICATIONS

Model No.	Horse-power (hp)	Kilowatts (kw)	Speed at Rated Power (RPM)	Max. operating Speed (RPM)	Continuous Torque (stall) at 104°F (40°C)		Continuous Torque (stall) at 77°F (25°C)		Continuous Line Current (Amps RMS)	Peak Torque		Peak Line Current (Amps RMS)	Max. Theroretical Acceleration (rad/sec²)	Torque Sensitivity (stall) ±10%		Back EMF (line-to-line) ±10% (V/KRPM)	Max. line-to-line volts (Volts RMS)	DC Res at 25°C (line-to-line) ± 10% Ohms)	Inductance line-to-line ±30% (mh)	Rotor Inertia		Weight		Static Friction		Thermal Time Constant (minutes)	Viscous Damping Z Source	
					lb-in	Nm	lb-in	Nm		lb-in	Nm			lb-in/ Amp RMS	Nm/Amp RMS					lb-in-sec²	Kg-m²	lb	kg	lb-in	Nm		lb-in/ KRP	Nm/ KRPM
S070-1L	0.73	0.54	7,500	7,500	7.44	0.84	7.92	0.89	2.40	21.36	2.41	7.20	78,070	3.12	0.353	21.30	250	6.80	30.00	.000274	.000031	5.50	2.50	0.36	0.04	10.00	0.018	0.002
S070-2L	1.20	0.90	5,600	5,600	13.68	1.55	14.52	1.64	3.00	36.76	4.48	9.00	95,000	4.536	0.512	31.00	250	5.30	28.10	.000408	.0000461	7.00	3.20	0.48	0.05	11.00	0.024	0.0027
S070-3L	1.20	0.90	4,200	4,200	19.44	2.20	20.64	2.33	3.00	54.72	6.18	9.00	80,850	6.396	0.723	43.70	250	6.50	37.50	.0006768	.0000765	8.50	3.90	0.60	0.07	12.00	0.036	0.004
S070-3M	2.00	1.49	7,500	7,500	19.68	2.22	20.88	2.36	6.00	56.16	6.35	18.00	82,980	3.288	0.370	22.50	250	1.60	9.40	.0006768	.0000765	8.50	3.90	0.60	0.07	12.00	0.036	0.004
S092-1M	1.30	1.00	3,800	3,800	21.60	2.44	22.92	2.59	3.00	65.40	7.38	9.60	74,150	7.164	0.81	49.00	250	7.00	68.00	.000882	.0000996	9.00	4.10	0.72	0.08	18.00	0.06	0.007
S092-1H	2.00	1.50	6,200	6,200	21.60	2.44	22.92	2.59	5.00	67.80	7.65	16.60	76,870	4.296	0.486	29.40	250	2.34	25.00	.000882	.0001	9.00	4.10	0.72	0.08	18.00	0.06	0.007
S092-2M	2.10	1.57	3,600	3,600	39.60	4.47	42.00	4.74	5.30	122.40	13.80	17.20	80,000	7.50	0.848	51.20	250	2.48	38.00	.00153	.0001729	13.60	6.20	0.84	0.10	20.00	0.084	0.009
S092-2H	3.80	2.83	6,200	6,200	42.36	4.79	44.88	5.07	9.80	121.20	13.70	29.50	79,216	4.332	0.49	29.60	250	0.786	12.00	.00153	.0001729	13.60	6.20	0.84	0.10	20.00	0.084	0.009
S092-3M	2.51	1.80	2,800	2,800	55.20	6.24	58.56	6.62	5.80	176.40	19.90	19.50	79,331	9.528	1.077	65.10	250	2.32	32.00	.002224	.000251	16.70	7.60	0.96	0.11	21.00	0.108	0.012
S092-3H	3.80	2.83	4,900	4,900	57.00	6.44	60.48	6.83	10.00	172.80	19.50	33.00	77,712	5.52	0.624	37.70	250	0.82	11.00	.002224	.000251	16.70	7.60	0.96	0.11	21.00	0.108	0.012
S115-1L	1.30	0.97	1,500	1,500	60.00	6.80	63.60	7.20	3.00	175.20	19.80	9.30	61,344	19.92	2.52	136.10	250	10.54	220.00	.002856	.000323	18.50	8.40	2.16	0.24	22.00	0.132	0.015
S115-1M	2.90	2.20	3,000	3,000	62.40	7.00	66.00	7.40	6.40	175.20	19.80	18.80	61,344	9.84	1.11	67.20	250	2.60	50.00	.002856	.000323	18.50	8.40	2.16	0.24	22.00	0.132	0.015
S115-1H	3.80	2.80	5,000	5,000	57.60	6.50	61.20	6.90	9.80	175.20	19.80	31.30	61,344	5.88	0.66	40.20	250	0.97	21.00	.002856	.000323	18.50	8.40	2.16	0.24	22.00	0.132	0.015
S115-2M	4.50	3.40	2,500	2,500	117.60	13.30	124.80	14.10	9.90	324.00	36.60	28.80	55,785	11.88	1.34	81.20	250	1.32	33.50	.005808	.000656	27.50	12.50	2.28	0.26	25.00	0.156	0.018
S115-2H	7.30	5.40	5,000	5,000	116.40	13.10	123.60	13.90	19.80	312.00	35.30	55.90	53,719	5.88	0.66	40.20	250	0.34	8.40	.005808	.000656	27.50	12.50	2.28	0.26	25.00	0.156	0.018
S115-3L	3.90	2.90	1,700	1,700	156.00	17.60	165.60	18.70	9.50	429.60	48.50	27.30	52,263	16.56	1.868	113.20	250	1.70	42.00	.00822	.000929	35.00	15.90	2.544	0.287	28.00	0.18	0.020
S115-3M	7.40	5.50	3,200	3,200	164.40	18.60	175.00	19.70	19.10	438.00	49.50	53.30	53,285	8.64	0.98	58.80	250	0.44	12.00	.00822	.000929	35.00	15.90	2.544	0.287	28.00	0.18	0.020
S142-1M	7.70	5.70	4,000	4,000	153.60	17.40	163.20	18.40	20.00	440.40	49.80	61.40	48,417	7.548	0.853	51.60	250	0.382	9.00	.009096	.001028	37.00	16.80	4.32	0.49	28.00	0.636	0.072
S142-2L	8.00	5.97	2,150	2,150	266.40	30.10	282.00	31.90	19.00	764.40	86.40	57.40	42,467	14.016	1.584	95.78	250	0.508	13.30	.018	.0020374	51.00	23.10	4.56	0.52	33.00	0.96	0.109
S142-2M	12.00	8.95	3,150	3,150	266.40	30.10	282.00	31.90	27.70	776.90	87.70	84.80	43,133	9.636	1.089	65.85	250	0.234	6.30	.018	.002034	51.00	23.10	4.56	0.52	33.00	0.96	0.109
S142-3L	8.80	6.56	1,550	1,550	393.00	44.80	408.00	47.40	20.00	1166.40	131.90	62.00	43,393	19.821	2.239	135.40	250	0.50	15.60	.02688	.00304	66.00	29.90	8.328	0.941	38.00	1.296	0.147
S142-3M	15.00	11.20	3,050	3,050	393.00	44.80	408.00	47.40	40.00	1116.00	126.10	118.60	41,518	9.912	1.12	67.70	250	0.14	3.80	.02688	.00304	66.00	29.90	8.328	0.941	38.00	1.296	0.147
S190-1M	13.60	10.10	2,750	2,750	360.00	40.70	381.60	43.10	32.40	1143.60	129.20	108.20	26,472	11.124	1.257	76.00	250	0.20	9.40	.0432	.00488	79.00	36.00	5.64	0.64	40.00	2.10	0.237

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