SUPER SAX®





SUPER SAX ® (SSax)

Complete line of Sinusoidal Brushless Servomotors (6 poles) for use with sinusoidal and trapezoidal AXOR's Drives (Mcb, Mcb Plus, McbNet, MiniMAGNUM and MAGNUM 400).

Torque ranges from 0.35 to 30 Nm.

STANDARD FEATURES

- ✓ Sinusoidal B.E.M.F.
- ✓ Excellent torque/inertia ratio
- ✓ Permanent rare earth magnets (NdFeB)
- ✓ Very low fluctuations of torque at minimum speed
- ✓ High overload capacity (4 x stall torque)
- ✓ Protection class IP54
- ✓ Five different Nominal Voltages (44, 95, 145, 220 and 380 V_{AC})
- ✓ Two different feedback systems:
 - Encoder 2048P/Rev, 5V LD or 2 poles resolver
- ✓ All motors with flying screw connectors
- ✓ Operating temperature O ÷ 40°C

OPTIONS

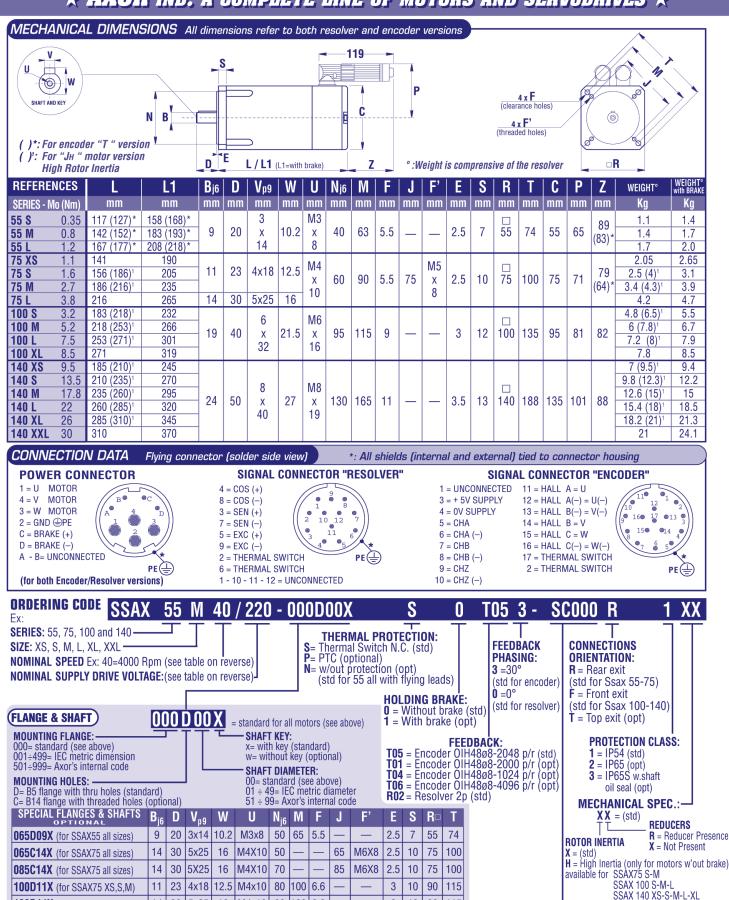
- ✔ Holding brakes
- ✓ Protection class: IP65, IP65S (with shaft sealing)
- ✓ Special flanges and shafts available upon request
- ✓ Flying leads instead of screw connectors
- ✓ Custom mountings available

Typical applications are: Axis Controlled by CNC, Strongly Intermittent Motor Duties, Machine Tools, Textile and Graphic Machines, Robots, Transfer Lines, Manufacturing, Packaging and Wood Working Machines.

TORQUE RANGE

SERIES			SSAX 55			SSAX 75				SSAX 100				SSAX 140					
SIZE		S	M	L	XS	S	M	L	S	M	L	XL	XS	S	M	L	XL	XXL	
Mo stall Torque (Δt =100°C)	(Nm)	0.35	0.8	1.2	1.1	1.6	2.7	3.8	3.2	5.2	7.5	8.5	9.5	13.5	17.8	22	26	30	
Mpk Peak Stall Torque	(Nm)	1.4	3.2	4.8	4.5	6.4	10.8	15.2	12.8	21	30	34	38	55	72	90	105	120	
380 VAC Stall Ac Current Io	(Arms)	0.7	1.4	1.5	1.1	1.5	2.4	3.5	2.2	3.4	4.8	5.5	6.3	8.7	11.5	14	16.5	19	
Drive's Rated speed N _n	(Rpm)	6000	6000	5000	4000	4000	4000	4000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
voltage Stall DC Current long	(Adc)	0.9	1.8	1.9	1.3	1.9	3.1	4.4	2.8	4.4	6	7	8	11	14.6	_	_	_	
	(Arms)	0.7	1.4	2.1	1.8	2.6	4.3	6	3.7	5.9	8	9.3	11	15	19.8	16	_		
main	(Rpm)	4000	4000	4000	4000	4000	4000	4000	3000	3000	3000	3000	3000	3000	3000	2000	_	_	
main voltage Stall DC Current look	(Adc)	0.9	1.8	2.7	2.3	3.4	5.5	7.7	4.7	7.5	10	12	14	19	_		_	_	
145 VAC Stall Ac Current Io	(Arms)	1.1	2.1	3.2	2.8	4	6	9.1	5.6	9.4	12.4	14	11	15	19.8	_	_	_	
Drive's Rated speed N _n	(Rpm)	4000	4000	4000	4000	4000	4000	4000	3000	3000	3000	3000	2000	2000	2000	_	_	_	
main voltage Stall DC Current long	(Adc)	1.4	2.7	4	3.5	5	7.7	11.7	7.2	11.5	15.9	18	14	19	_	_	_	_	
95 VAC Stall Ac Current Io	(Arms)	1.6	3.2	4.9	4	6.2	8	10	8.6	13.7	15.4	14	16.8	_	_		_	_	
Drive's Rated speed Nn	(Rpm)	4000	4000	4000	4000	4000	3500	3000	3000	3000	2500	2000	2000	_	_	_	_	_	
main voltage Stall DC Current look	(Adc)	2	4	6.2	5	8	10	13.3	11	17.5	19.7	18	_	_	_	_	_	_	
44 VAC Stall Ac Current Io	(Arms)	3.5	5.2	7.9	8	10	15	15	18.5	19.7		_	_	_	_		_	_	
Drive's Rated speed Nn	(Rpm)	4000	3000	3000	3000	3000	3000	2000	3000	2000	_	_	_	_	_	_	_	_	
main voltage Stall DC Current long	(Adc)	4.4	6.6	10	10	13	19	19	_	_	_	_	_	_	_	_	_	_	
J Rotor Inertia (std) (Kg	m²)·10 ⁻⁴	0.08	0.16	0.24	0.4	0.6	1	1.4	1.8	2.8	3.8	4.2	9.5	13.5	18	22	27	31	
Jн High Rotor Inertia (opt) (Kg	m²)·10 ⁻⁴	_	_	_	_	3.9	4.3	_	14.9	15.9	12	_	45	49	53	58	62		
JB Brake Inertia (Kgm²)·10 ⁻⁴		0.045				0.122			0.37			1.15			4.0				
BRAKE stall torque (Δt=100°C) (24 Vpc +6% -10%)			1.8 Nm (0.46 ADC)			4 Nm (0.5 Adc)				8 Nm (0.8 Adc)				18 Nm (1Adc)			32 Nm (1.1 Adc)		
MODULE		2	4	6	2	3	5	7	3	5	7	8	2	3	4	5	6	7	





14 30 5x25 M4x10 80 100 6.6 3 10 90 115 100D14X (for SSAX75 all sizes) 16 130D14X (for 75 all sizes/100 S,M,L 14 30 5x25 M4x10 110 130 9 3.5 10 115 150 16 100C19X (for SSAX100 all sizes) 19 40 6x32 M6x16 80 100 M6x10 3 12 95 120 21.5 14 3 12 115D14X (for SSAX100 S, M 30 5x25 16 M4x10 95 115 9 100 135 24 9 3 115D24X (for SSAX100 all sizes) 50 8X40 27 M8x19 95 115 12 100 135 130D19X (for SSAX100 all sizes) 19 40 6x32 21.5 M6x16 110 130 9 3.5 12 115 150 130D24X (for SSAX100 all sizes) 24 50 8x40 M8x19 3.5 12 115 150 145D19X (for SSAX100 all sizes) 19 3.5 12 130 40 6x32 21.5 M6x16 110 145 165

ELECTRICAL CONNECTIONS: SCOOO = Screw Connectors (std)

P3E01= Flying leads (opt)

LENGTH FEEDBACK MOTOR SIDE

.5÷04 =lenght (m) Ex: .5 = 0.5 m std E = Encoder (and only) length available for SSAX55 R = Resolver 50÷99 =Axor's internal use

ASSEMBLY CODE

P = Cable glands

3=No connectors, static cables **4**=SubD signal connector, static cables