



SYNCHRONOUS MOTOR FAMILY

Series 57mm (SA) Geared Synchronous Motor



Output Speed:	1 to 300 RPM
Insulation Class:	Class A (105°C)
Lead Wire:	4 leads 22AWG (approx. 9 inches [228.6 mm])
Operation Ambient Temp:	-10°C to +40°C (approx.)
Gear Unit:	Zinc Die Cast - AGMA 7 Standard with hardened steel gears
Shaft Bearing:	Sleeve Bearing
 Recognition:	E53578(N), Component-Impedance Protected Motors, 115Vac Standard Rotor
 Certification:	Card No. 42576, Motors and Generators, 115 Vac, 60 Hz, Standard Rotor, 8.4 watts max.
Note: Typical data subject to change without notification	

All gears are hobbed to AGMA 7 standards. Pinions are extruded from special steel with a modified long addendum tooth form to provide higher strength. Pinions are held to the same AGMA 7 quality level as the gears. Both pinion and gear teeth are case hardened for wear resistance and rotate upon hardened and ground steel studs.

Notes:

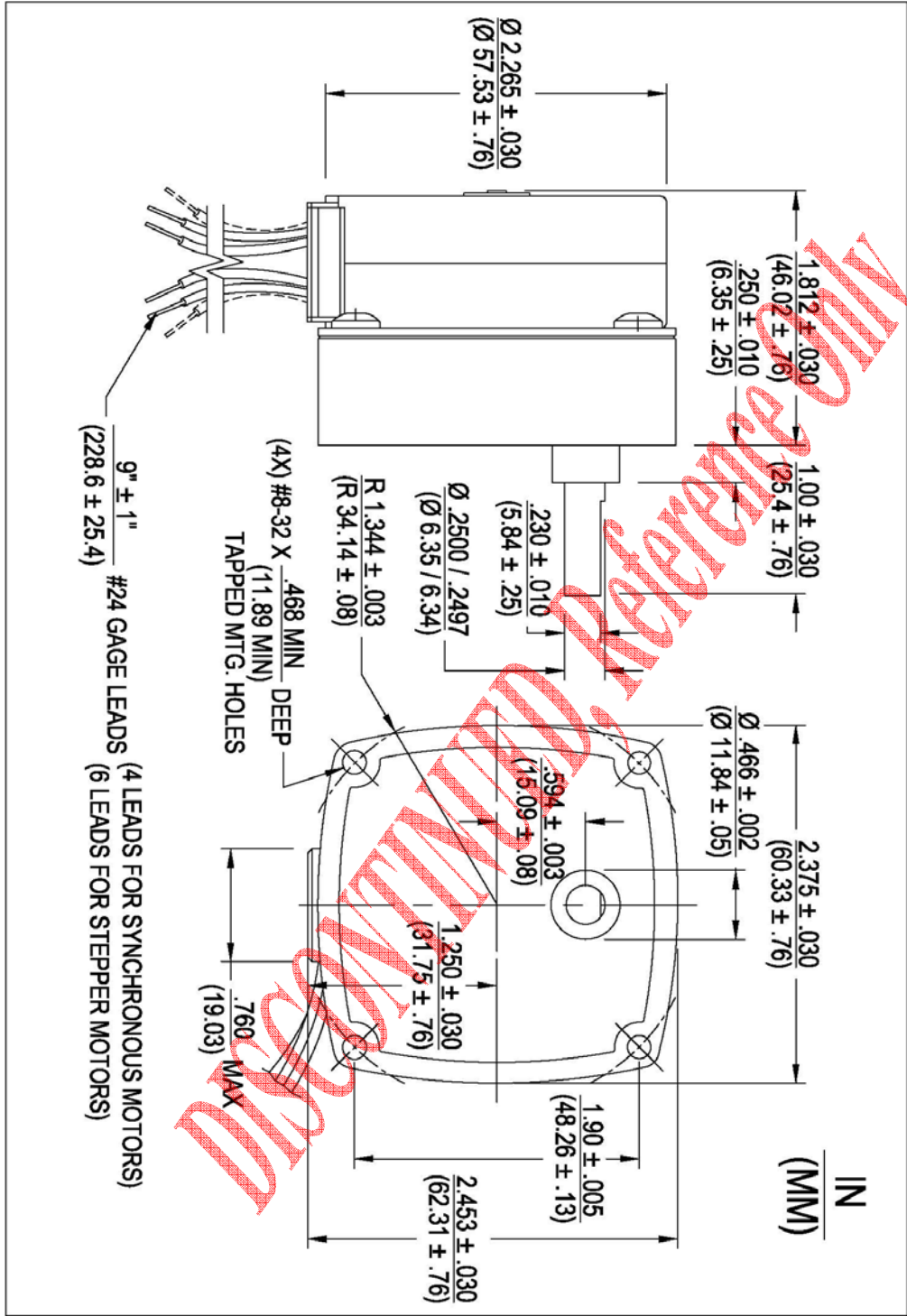
- Capacitors are required for operation and must be used in the circuit even is the motor is used in a unidirectional model.
- Capacitors are furnished with 115V motors.

DISCONTINUED PRODUCT ONLY

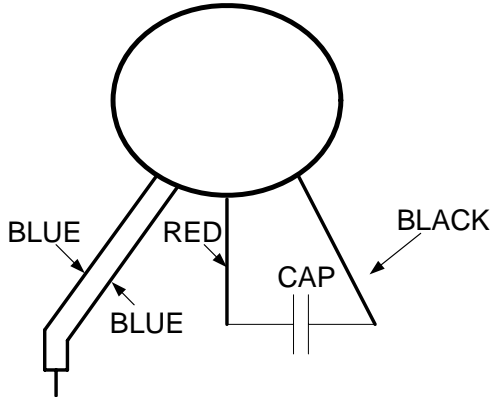
Model	Part Number	Reduction	Rated Torque (oz-in)	Rated Torque (mN-m)	Output Speed (RPM)	Maximum gear train loading	Input Power (watts)	Voltage (VAC) 50HZ	Voltage (VAC) 60HZ	Capacitor Value (mfd)	Capacitor not supplied	Weight (oz)	Weight (g)	Hi-Torque Rotor
SA	4002-002	300	200	1412.3	1	X	5.5		115	0.5		16	453.6	
SA	4002-020	300	200	1412.3	1		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-028	250	200	1412.3	1		5.5	220		0.15 440VAC +/-10%	X	16	453.6	
SA	4002-004	150	174	1228.7	2	X	5.5		115	0.5		16	453.6	
SA	4002-024	150	174	1228.7	2		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-005	100	161	1136.9	3		5.5		115	0.5		16	453.6	
SA	4002-030	100	161	1136.9	3		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-006	75	152	1073.4	4	X	5.5		115	0.5		16	453.6	
SA	4002-026	75	152	1073.4	4		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-042	62.5	200	1412.3	4		5.5	230		0.12 440VAC +/-10%	X	16	453.6	
SA	4002-001	600	200	1412.3	5		5.5		115	0.5		16	453.6	
SA	4002-007	60	145	1023.9	5		5.5		115	0.5		16	453.6	
SA	4002-008	50	140	988.6	6	X	5.5		115	0.5		16	453.6	
SA	4002-025	41.67	140	988.6	6		5.5	240		0.12 440VAC +/-10%	X	16	453.6	
SA	4002-033	50	140	988.6	6		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-034	41.67	140	988.6	6		5.5	115		0.5		16	453.6	
SA	4002-035	41.67	140	988.6	6		5.5	24		10 100VDC +/-10%	X	16	453.6	
SA	4002-041	50	140	988.6	6		5.5		240	0.12 440VAC +/-10%	X	16	453.6	
SA	4002-010	30	126	889.8	10		5.5		115	0.5		16	453.6	
SA	4002-022	30	126	889.8	10		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-036	25	105	741.5	10		5.5	24		10 100VDC +/-10%	X	16	453.6	
SA	4002-038	25	84	593.2	10		5.5	115		0.5		16	453.6	
SA	4002-014	10	45	317.8	30		5.5		115	0.5		16	453.6	
SA	4002-039	8.33	28	197.7	30		5.5	115		0.5		16	453.6	

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SA	4002-043	8.33	28	197.7	30		5.5	24		10 100VDC +/-10%	X	16	453.6	
SA	4021-014	10	64	451.9	30		7		115	0.62		16	453.6	X
SA	4021-021	10	64	451.9	30		7		24	15 100VDC +/-10%	X	16	453.6	X
SA	4021-022	8.33	53	374.3	30		6	24		15 100VDC +/-10%	X	16	453.6	X
SA	4002-015	5	22.5	158.9	60		5.5		115	0.5		16	453.6	
SA	4002-032	5	22.5	158.9	60		5.5		24	10 100VDC +/-10%	X	16	453.6	
SA	4002-037	4.17	17.5	123.6	60		5.5	24		10 100VDC +/-10%	X	16	453.6	
SA	4002-040	4.17	17.5	123.6	60		5.5	115		0.5		16	453.6	
SA	4021-015	5	32	226	60		7		115	0.62		16	453.6	X
SA	4002-018	2.5	11	77.7	120		5.5		115	0.5		16	453.6	
SA	4021-018	2.5	16	113	120		7		115	0.62		16	453.6	X

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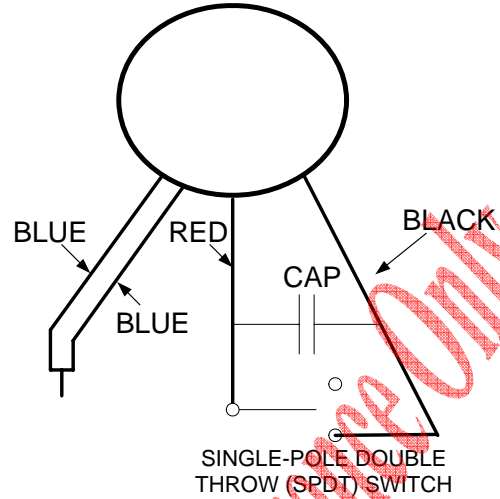


Wiring Diagram



Capacitors are non-polarized and must always be connected between the red and black leads. Always connect the (2) coil blue leads together. Connect the power supply to the blue leads and red lead to produce clockwise (CW) rotation viewing shaft end. Connect the power supply to the blue leads and black lead to produce counter-clockwise (CCW) rotation viewing shaft end.

Optional Wiring Diagram with Switch



Capacitors are non-polarized and must always be connected between the red and black leads. Always connect the (2) coil blue leads together. Connect the power supply to the blue leads and red lead to produce clockwise (CW) rotation viewing shaft end. Connect the power supply to the blue leads and black lead to produce counter-clockwise (CCW) rotation viewing shaft end.

DISCONTINUED, IN STOCK ONLY