SMC60S-0040 Servo Motor

- 220 VAC .
- 400 W Power Rating •
- Rated Torque of 1.24 Nm
- Maximum Speed of 6000 RPM
- 2500 PPR Incremental Encoder
- IP65 for Body, IP54 Shaft Seal
- 60mm Frame Size
- **CE** Certified



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DIMENSIONS

FEATURES

The SMC60S-0040 Series Servo Motor offers a solution to servo applications requiring position and speed control. This servo motor series comes standard with a 2,500 Pulses per Revolution (PPR) Incremental Encoder, runs at a rated speed of 3000 RPM, provides peak values up to 300% of the rated torque and current values, and has a rated torque of 1.24 Nm with a 400 Watt power rating. This servo motor series enables industrial motion control applications to attain a great combination of position and speed functionality.

Model	SMC60S-0040-30AAK-3LKH SMC60S-0040-30ABK-3LKH	
Compatible Driver	FD422S-CA-000 FD422S-AA-000 FD422S-LA-000	
DC Link Voltage (VDC)	300	
Rated Power (W)	400	
Rated Torque (Nm)	1.27	
Rated Speed (RPM)	3000	
Max Speed (RPM)	6000	
Rated Current (A)	2.4	
Maximum Torque (Nm)	3.81	
Maximum Current (A)	7.2	
Rated Standstill Torque (Nm)	1.4	
Rated Standstill Current (A)	2.6	
Resistance Line-Line (Ω)	5.8	
Inductance Line-Line (mH)	11.5	
Electrical Time Constant (ms)	1.98	
Mechanical Time Constant (ms)	1.29	
Torque Constant Kt (Nm/A)	0.563	
Rotor Moment of Inertia Jm (Kg-cm ²)	0.405 0.409 (with brake)	
Pole Pair Number	3	
Maximum Voltage Rising du/dt (KV/µs)	8	
Insulation Class	F	
Maximum Radial Force F (N)	180	
Maximum Axial Force F (N)	90	
Weight (Kg)	1.6 2.1 (with brake)	
Part Numbers with -30ABK are equipped	with a brake	

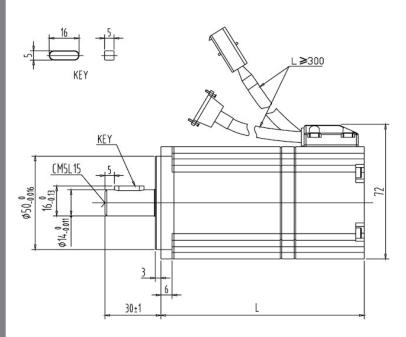
L011656 *Note: Part Numbers with -30ABK are equipped with a brake.

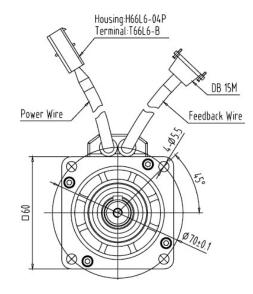




SMC60S-0040-30AAK-3LKH

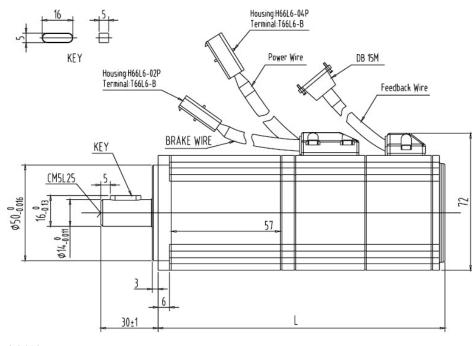
SMC60S-0040-30ABK-3LKH

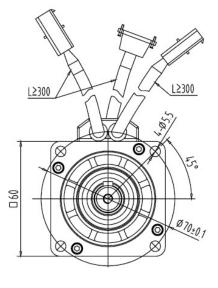






Dimensions are in mm

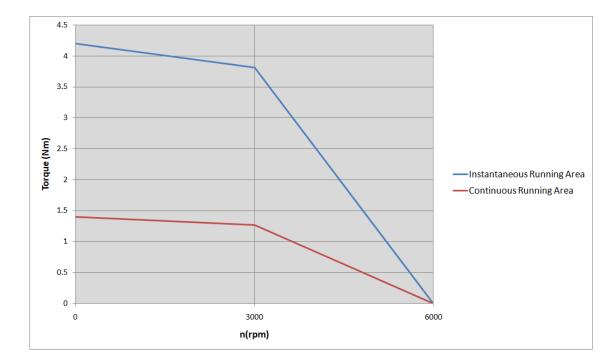




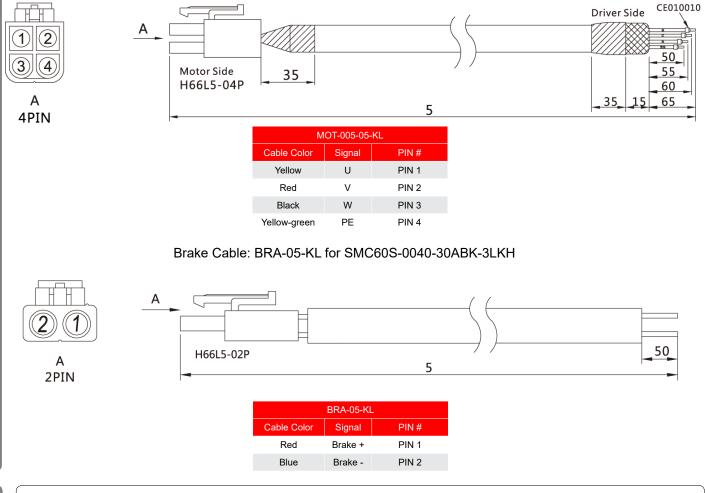
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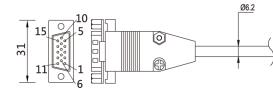
Motor Cable: MOT-005-05-KL for SMC60S-0040-30AAK-3LKH and SMC60S-0040-30ABK-3LKH



WIRING PINOUTS



Encoder Cable: ENCCF-05-FH for SMC60S-0040-30AAK-3LKH and SMC60S-0040-30ABK-3LKH



Three-row 15 pin DB female Motor side

Two-row 15 pin male

Yellow shrinkable tube

wo-row 15 pin male Driver side

ENCCF-05-FH				
Three-Row Motor Side 15 PIN DB	Two-Row Driver Side 15 PIN DB	Signal	External Wire Color	Motor Wire Color
PIN 1	PIN 1	+5V	Red (thick)	Red
PIN 8	PIN 2	А	Brown	Blue-Black
PIN 7	PIN 3	В	Yellow	Green
PIN 6	PIN 4	Z	Green	Yellow
PIN 2	PIN 9	GND	Black (thick)	Black
PIN 13	PIN 10	/A	Brown-white	Blue
PIN 12	PIN 11	/B	Yellow-white	Green-black
PIN 11	PIN 12	/Z	Green-white	Yellow-black
Other PINs empty	Other PINs empty	n/a	n/a	n/a
Shell	Shell	Shield	Shield	Shield

Model	Motor Cable	Encoder Cable	Brake Cable
SMC60S-0040-30AAK-3LKH			-
SMC60S-0040-30ABK-3LKH	MOT-005-05-KL	ENCCF-05-FH	BRA-005-05-KL

Model		SMC60S-0040-30AAK-3LKH SMC60S-0040-30ABK-3LKH	
Length of	Motor L(mm)	135 ± 1.5 176 ± 1.5 (with brake)	
Cooli	ng Method	Totally Enclosed, Non-Ventilated	
Prote	ction Level	IP65 for Body, Shaft Sealing IP54	
Environmental Am Conditions of Operation	Temperature	-20°C~40°C (Non-freezing)	
	Humidity	Below 90% RH (Non-condensing)	
	Ambient Environment	Away from active gas, combustible gas, oil drops and dust	
	Altitude	Maximum Altitude 4000m, Rated Power at 1000m or Below, Above 1000m: Decreasing 1.5% per 100m Rise	

SPECIFICATIONS