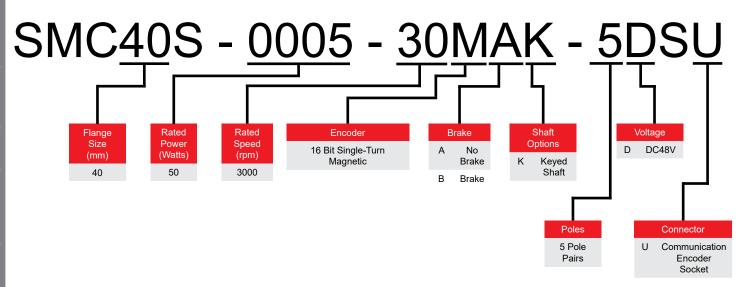


- 24-70VDC
- 50W Power Rating
- Rated Torque of 0.16 Nm
- Maximum Speed of 3942 RPM
- 16 Bit Single-Turn Magnetic Encoder
- IP65 for Body, IP54 Shaft Seal
- Insulation Class F
- Brake Option Available



The SMC40S-0005 Series Servo Motor offers a low-cost solution for motion control applications requiring position and speed control. With the new 16 Bit Single-Turn Magnetic Encoder it allows for better cushioning ability and higher cost-performance ratio. These Servo Motors have Insulation Class F which is the best Insulation Class on the market. They are very quiet with high reliability and stability in high temperature environments. These Servo Motors boast peak torque values up to 0.48 Nm, provide excellent dynamic response, allow for 3 times the overload capacity, and has a rated torque of 0.16 Nm. It is available in a 40mm square flange size, with a brake option.



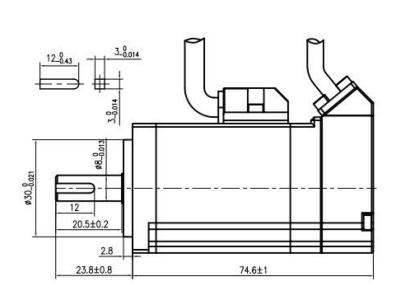
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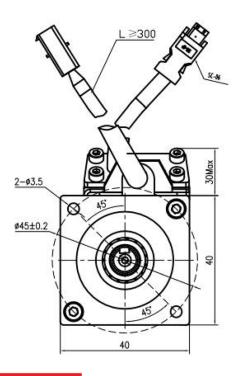


Model	SMC40S-0005-30MAK-5DSU SMC40S-0005-30MBK-5DSU	
	55 105 0000 00E.N 02.00	
Compatible Driver	FD114S-LB-000	
DC Link Voltage (VDC)	48	
Rated Power (W)	50	
Rated Torque (Nm)	0.16	
Rated Speed (RPM)	3000	
Max Speed (RPM)	3942	
Rated Current (A)	1.5	
Maximum Torque (Nm)	0.48	
Maximum Current (A)	4.5	
Rated Standstill Torque (Nm)	0.176	
Rated Standstill Current (A)	1.65	
Resistance Line-Line (Ω)	4.1	
Inductance Line-Line (mH)	4.5	
Electrical Time Constant (ms)	1.1	
Mechanical Time Constant (ms)	1.0	
Wednamed Time Constant (1115)	1.17 (with brake)	
Torque Constant Kt (Nm/A)	0.11	
Rotor Moment of Inertia Jm (Kg-cm²)	0.018	
	0.021 (with brake)	
Brake Holding Torque (Nm)	0.32	
Pole Pair Number	5	
Maximum Voltage Rising du/dt (KV/μs)	8	
Insulation Class	F	
Maximum Radial Force F (N)	120	
Maximum Axial Force F (N)	60	
Weight (Kg)	0.4 0.6 (with brake)	
Length of Motor (mm)	74.6 ± 1 104.6 ± 1.5 (with brake)	

Kinco

SMC40S-0005-30MAK-5DSU





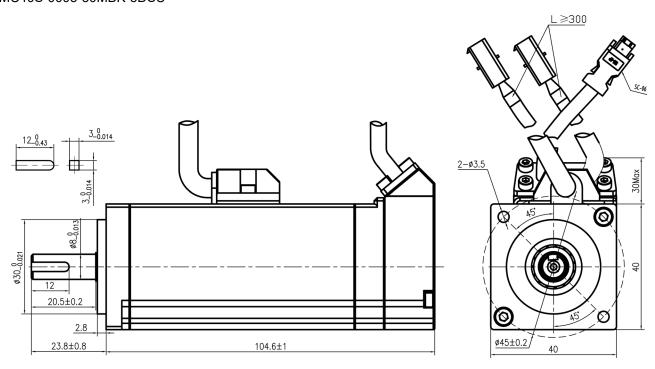
 Model
 SMC40S-0005-30MAK-5DSU SMC40S-0005-30MBK-5DSU

 Length of Motor
 74.6 ± 1

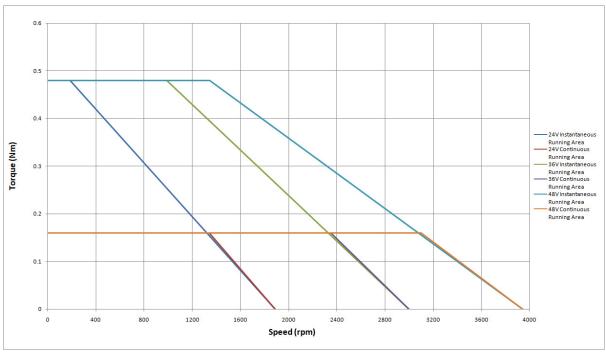
 L (mm)
 104.6 ± 1.5 (with brake)

Dimensions are in mm

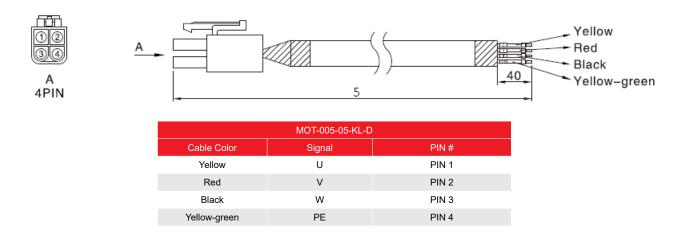
SMC40S-0005-30MBK-5DSU



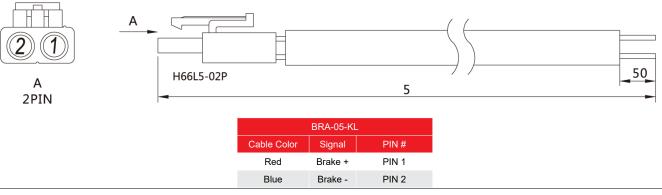
Kinco



Motor Cable: MOT-005-05-KL-D for SMC40S-0005-30MAK-5DSU and SMC40S-0005-30MBK-5DSU

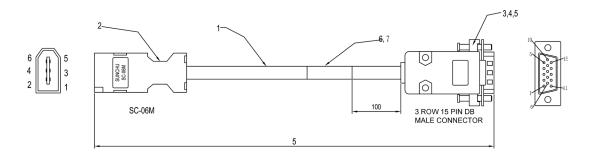


Brake Cable: BRA-05-KL for SMC40S-0005-30MBK-5DSU





Encoder Cable: ENCHG-05-GU for SMC40S-0005-30MAK-5DSU and SMC40S-0005-30MBK-5DSU



ENCHG-05-GU					
Wiring Cable	Color	Signal 1	Signal 2	DB15	
PIN 1	Red	VDD	VDD	PIN1	
PIN 2	Black	GND	GND	PIN2	
PIN 3	Brown	MA_P+	1	PIN10	
PIN 4	Blue	MA_N-	1	PIN15	
PIN 5	Yellow	SLO_P+	SD	PIN9	
PIN 6	Green	SLO_N-	/SD	PIN14	
SHELL	SHIELD	SHIELD	SHIELD	SHELL	



Model	Motor Cable	Encoder Cable	Brake Cable
SMC40S-0005-30MAK-5DSU		ENCHG-05-GU	-
SMC40S-0005-30MBK-5DSU	MOT-005-05-KL-D		BRA-05-KL

1	Model	SMC40S-0005-30MAK-5DSU SMC40S-0005-30MBK-5DSU
Length of Motor L(mm)		74.6 ± 1 104.6 ± 1.5 (with brake)
Cooli	ng Method	Totally Enclosed, Non-Ventilated
Prote	ction Level	IP65 for Body, Shaft Sealing IP54
Temperature	Temperature	-20°C~40°C (Non-freezing)
	Humidity	Below 90% RH (Non-condensing)
Environmental Ambi Conditions of Operation	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