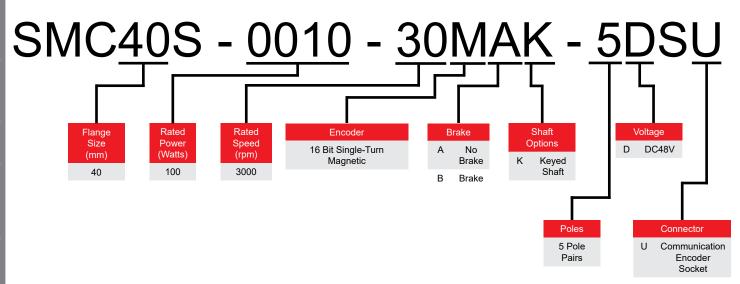


- 24-70VDC
- 100W Power Rating
- Rated Torque of 0.32 Nm
- Maximum Speed of 3942 RPM
- 16 Bit Single-Turn Magnetic Encoder
- IP65 for Body, IP54 Shaft Seal
- Insulation Class F
- Brake Option Available



The SMC40S-0010 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 0.96 Nm, provide excellent dynamic response, allow for 3 times the overload capacity, and has a rated torque of 0.32 Nm. It is available in a 40mm square flange size, with a brake option.



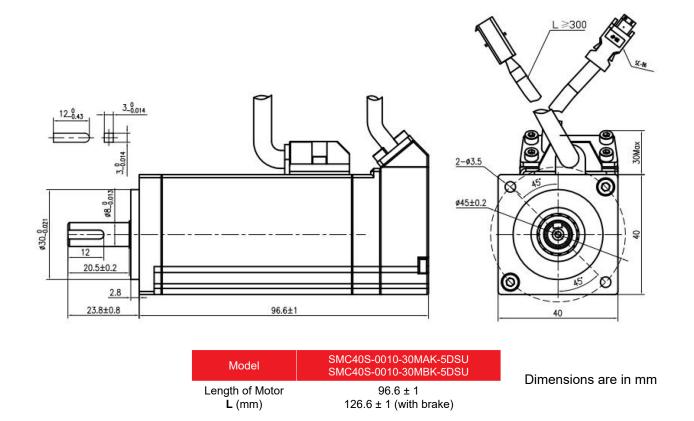
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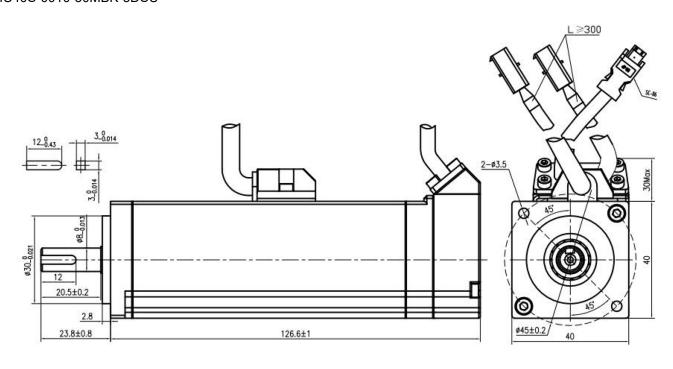
Model	SMC40S-0010-30MAK-5DSU SMC40S-0010-30MBK-5DSU		
Compatible Driver	FD114S-LB-000		
DC Link Voltage (VDC)	48		
Rated Power (W)	100		
Rated Torque (Nm)	0.32		
Rated Speed (RPM)	3000		
Max Speed (RPM)	3942		
Rated Current (A)	3.2		
Maximum Torque (Nm)	0.96		
Maximum Current (A)	9.6		
Rated Standstill Torque (Nm)	0.352		
Rated Standstill Current (A)	3.52		
Resistance Line-Line (Ω)	1.5		
Inductance Line-Line (mH)	1.9		
Electrical Time Constant (ms)	1.27		
Mechanical Time Constant (ms)	0.67 0.94 (with brake)		
Torque Constant Kt (Nm/A)	0.11		
Rotor Moment of Inertia Jm (Kg-cm²)	0.033 0.046 (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)	0.57 0.77 (with brake)		
Length of Motor (mm)	96.6 ± 1 126.6 ± 1.5 (with brake)		



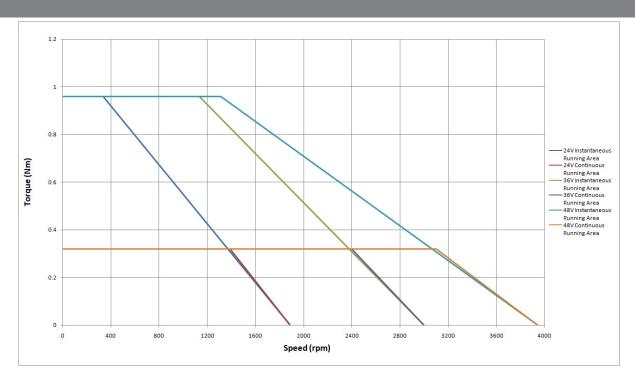
SMC40S-0010-30MAK-5DSU



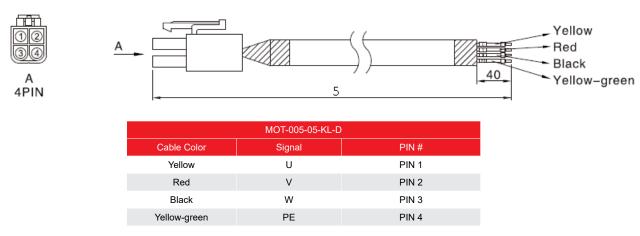
SMC40S-0010-30MBK-5DSU



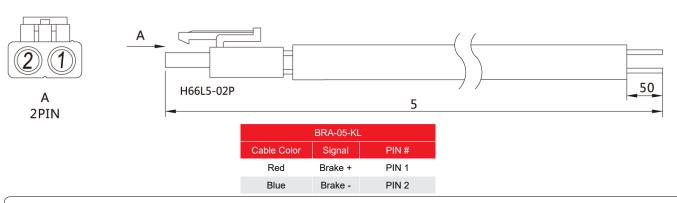
Kinco



Motor Cable: MOT-005-05-KL-D for SMC40S-0010-30MAK-5DSU & SMC40S-0010-30MBK-5DSU

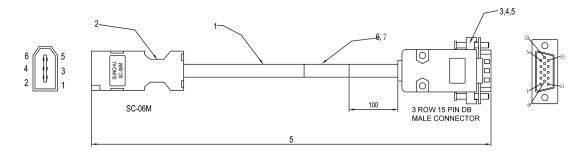


Brake Cable: BRA-05-KL for SMC40S-0010-30MBK-5DSU





Encoder Cable: ENCHG-05-GU for SMC40S-0010-30MAK-5DSU and SMC40S-0010-30MBK-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		

Operation

Model

Altitude



Brake Cable

Encoder Cable

Above 1000m: Decreasing 1.5% per 100m Rise

SMC40S-00)10-30MAK-5DSU			-	
SMC40S-0010-30MBK-5DSU		MOT-005-05-KL-D	ENCHG-05-GU	BRA-05-KL	
Model		SMC40S-0010-30MAK-5DSU SMC40S-0010-30MBK-5DSU			
Length of	Motor L(mm)	96.6 ± 1 126.6 ± 1 (with brake)			
Cooli	Cooling Method		ally Enclosed, Non-Ventilated		
Protection Level		IP65	IP65 for Body, Shaft Sealing IP54		
	Temperature	-2	20°C~40°C (Non-freezing)		
Environmental	Humidity	Belov	w 90% RH (Non-condensing)		
	Ambient Environment	Away from active	gas, combustible gas, oil drop	s and dust	
Conditions of Operation	Altitude	Maximum Altitude	4000m, Rated Power at 1000	m or Below,	

Motor Cable