

Servo Motors

DC Servo Motor

ATOMBOTIX



HIGH PRECISION



Equipped with 16-bit or 2500 PPR encoders for accurate position and speed feedback

SMOOTH TORQUE



Low cogging and ripple for stable, low-vibration operation

STRONG OVERLOAD CAPABILITY



Up to 300% peak torque and current handling

COMPACT DESIGN



Shorter body saves space and reduces machine footprint

BRAKE OPTION AVAILABLE



Optional brake enhances safety for vertical loads or emergency stops

DURABLE BUILD



Optional brake enhances safety for vertical loads or emergency stops

Model	Encoder Type	Motor Inertia	Rated Power	Rated Torque	Rated Current	Rated Speed	Flange	Corresponding Encoder Model		
		Jm (kg·cm ²)	Pn(W)	Tn(Nm)	In(A)	nN(rpm)	(mm)	CAN	RS485+Pulse	EtherCAT
SMC40S-0005-30M*K-5DSU	Magnetic Encoder	0.018(0.021)	50	0.16	1.50	3000	40x40	FD114S-CB-000	FD114S-LB-000	FD114S-EB-000
SMC40S-0010-30M*K-5DSU	Magnetic Encoder	0.033(0.046)	100	0.32	3.20	3000	40x40	FD114S-CB-000	FD114S-LB-000	FD114S-EB-000
SMC60S-0020-30M*K-5DSU	Magnetic Encoder	0.14(0.144)	200	0.64	5.70	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0040-30M*K-5DSU	Magnetic Encoder	0.26(0.264)	400	1.27	10.60	3000	60x62	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0060-30M*K-5DSU	Magnetic Encoder	0.403(0.407)	600	1.27	10.60	3000	60x62	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC80S-0075-30M*K-5DSU	Magnetic Encoder	1.027(1.099)	750	2.39	19.90	3000	80x80	FD134S-CB-000	FD134S-LB-000	FD134S-EB-000
SMC80S-0100-30M*K-5DSU	Magnetic Encoder	1.36(1.41)	1000	3.18	26.40	3000	80x82	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000
SMC40S-0005-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	0.018(0.021)	50	0.16	1.50	3000	40x40	FD114S-CB-000	FD114S-LB-000	FD114S-EB-000
SMC40S-0010-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	0.033(0.046)	100	0.32	3.20	3000	40x40	FD114S-CB-000	FD114S-LB-000	FD114S-EB-000
SMC60S-0020-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	0.14 (0.144)	200	0.64	5.70	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0040-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	0.26(0.264)	400	1.27	10.60	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0040-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	0.38 (0.384)	400	1.27	10.60	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0060-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	0.65(0.654)	600	1.91	16.50	3000	60x60	FD134S-CB-000	FD134S-LB-000	FD134S-EB-000

SMC80S-0075-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	1.027(1.099)	750	2.39	19.90	3000	80x80	FD134S-CB-000	FD134S-LB-000	FD134S-EB-000
SMC80S-0100-30Q*K-5DSU	Multi-turn Magnetic Absolute Encoder	1.36(1.41)	1000	3.18	26.40	3000	80x80	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000
SMC130D-0150-30Q*K-4DKU	Multi-turn Magnetic Absolute Encoder	11.5(11.5)	1500	5.00	42.40	3000	130x130	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000
SMC60S-0020-30A*K-5DSH	2500P/R Optical Encoder	0.14(0.144)	200	0.64	5.70	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0040-30A*K-5DSH	2500P/R Optical Encoder	0.26(0.264)	400	1.27	10.60	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0060-30A*K-5DSH	2500P/R Optical Encoder	0.403(0.407)	600	1.91	16.50	3000	60x60	FD134S-CB-000	FD134S-LB-000	FD134S-EB-000
SMC80S-0075-30A*K-5DSH	2500P/R Optical Encoder	1.027(1.099)	750	2.39	19.90	3000	80x80	FD134S-CB-000	FD134S-LB-000	FD134S-EB-000
SMC80S-0100-30A*K-5DSH	2500P/R Optical Encoder	1.36(1.41)	1000	3.18	26.40	3000	80x80	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000
SMC80S-0120-30A*K-5DSH	2500P/R Optical Encoder	1.36(1.41)	1200	3.82	34.00	3000	80x80	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000
SMC60S-0020-30W*K-5DCH	2500P/R Incremental Magnetoelect ric Encoder	0.11(0.114)	200	0.64	5.70	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC60S-0040-30W*K-5DCH	2500P/R Incremental Magnetoelect ric Encoder	0.26(0.264)	400	1.27	10.60	3000	60x60	FD124S-CB-000	FD124S-LB-000	FD124S-EB-000
SMC80S-0075-30W*K-5DCH	2500P/R Incremental Magnetoelect ric Encoder	0.77(0.84)	750	2.39	19.90	3000	80x80	FD134S-CB-000	FD134S-LB-000	FD134S-EB-000
SMC80S-0100-30W*K-5DCH	2500P/R Incremental Magnetoelect ric Encoder	1.027(1.099)	1000	3.18	26.40	3000	80x80	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000
SMC130D-0150-30W*K-4DSH	2500P/R Incremental Magnetoelect ric Encoder	11.5(11.5)	1500	5.00	42.40	3000	130x130	FD144S-CB-000	FD144S-LB-000	FD144S-EB-000

SMC130D-0250-30W*K-4DSH	2500P/R Incremental Magnetoelect ric Encoder	17.1(17.1)	2500	7.96	61.00	3000	130x130	FD164S-CB-000	FD164S-LB-000	FD164S-EB-000
SMC130D-0300-30W*K-4DSH	2500P/R Incremental Magnetoelect ric Encoder	22.6(22.6)	3000	9.55	72.00	3000	130x130	FD164S-CB-000	FD164S-LB-000	FD164S-EB-000
SMC130D-0300-20W*K-4DSH	2500P/R Incremental Magnetoelect ric Encoder	35.9(35.9)	3000	14.30	77.70	2000	130x130	FD164S-CB-000	FD164S-LB-000	FD164S-EB-000

Note 1 :

* A: without brake

B: with brake

Note 2: The value in the inertia column in parentheses is the inertia column value of the brake motor.

Note3 : Encoder support type: CAN, or RS485+Pulse, or EtherCAT

IP Ratings:

(1) IP65 for body, IP54 for shaft end (without oil seal) IP65 for shaft end mounted oil seal.

(2) For more information about oil seal installation, see the product manual.

Energy efficiency level: 2 levels



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