

Driver and Motor Configuration Table

FD1X4S Servo Driver and Motor Selection Table

Category	Rated power/ Rated speed/ Rated torque	Servo Motor	Description	Power/ Brake Cable	Encoder Cable	Servo Driver																																						
						CANopen	EtherCAT	Pulse/MODBUS 485																																				
Small inertia DC48V	50W 3000rpm 0.16Nm	SMC40S-0005-30MAK-5DSU	16 bit single-turn magnetoelectric encoder	MOT-005-L-KL-D	ENCHG-LL-GU	FD124S-CA-000	FD124S-EA-000	FD124S-LA-000																																				
		SMC40S-0005-30MBK-5DSU	16 bit single-turn magnetoelectric encoder with brake	MOT-005-L-KL-D/BRA-LL-KL					FD114S-CB-000	FD114S-EB-000	FD114S-LB-000																																	
	100W 3000rpm 0.32Nm	SMC40S-0010-30MAK-5DSU	16 bit single-turn magnetoelectric encoder	MOT-005-L-KL-D					ENCHG-LL-GU	FD124S-CA-000	FD124S-EA-000	FD124S-LA-000																																
		SMC40S-0010-30MBK-5DSU	16 bit single-turn magnetoelectric encoder with brake	MOT-005-L-KL-D/BRA-LL-KL									FD114S-CB-000	FD114S-EB-000	FD114S-LB-000																													
	200W 3000rpm 0.64Nm	SMC60S-0020-30MAK-3DSU	16 bit single-turn magnetoelectric encoder	MOT-005-L-KL-D									ENCHG-LL-GU	FD124S-CA-000	FD124S-EA-000	FD124S-LA-000																												
		SMC60S-0020-30MBK-3DSU	16 bit single-turn magnetoelectric encoder with brake	MOT-005-L-KL-D/BRA-LL-KL													FD124S-CB-000	FD124S-EB-000	FD124S-LB-000																									
	400W 3000rpm 1.27Nm	SMC60S-0040-30MAK-3DSU	16 bit single-turn magnetoelectric encoder	MOT-008-L-KL-D													ENCHG-LL-GU	FD124S-CA-000	FD124S-EA-000	FD124S-LA-000																								
		SMC60S-0040-30MBK-3DSU	16 bit single-turn magnetoelectric encoder with brake	MOT-008-L-KL-D/BRA-LL-KL																	FD124S-CB-000	FD124S-EB-000	FD124S-LB-000																					
	750W 3000rpm 2.39Nm	SMC80S-0075-30MAK-3DSU	16 bit single-turn magnetoelectric encoder	MOT-015-L-KL-SP																	ENCHG-LL-GU	FD134S-CA-000	FD134S-EA-000	FD134S-LA-000																				
		SMC80S-0075-30MBK-3DSU	16 bit single-turn magnetoelectric encoder with brake	MOT-015-L-KL-SP/BRA-LL-KL																					FD134S-CB-000	FD134S-EB-000	FD134S-LB-000																	
	200W 3000rpm 0.64Nm	SMC60S-0020-30AAK-3DSH	2500P/R incremental encoder, lead cable	MOT-005-L-KL-D																					ENCHG-LL-GU	FD124S-CA-000	FD124S-EA-000	FD124S-LA-000																
		SMC60S-0020-30ABK-3DSH	2500P/R incremental encoder with brake, lead cable	MOT-005-L-KL-D/BRA-LL-KL																									FD124S-CB-000	FD124S-EB-000	FD124S-LB-000													
	400W 3000rpm 1.27Nm	SMC60S-0040-30AAK-3DSH	2500P/R incremental encoder, lead cable	MOT-008-L-KL-D																									ENCHG-LL-GU	FD124S-CA-000	FD124S-EA-000	FD124S-LA-000												
		SMC60S-0040-30ABK-3DSH	2500P/R incremental encoder with brake, lead cable	MOT-008-L-KL-D/BRA-LL-KL																													FD124S-CB-000	FD124S-EB-000	FD124S-LB-000									
	750W 3000rpm 2.39Nm	SMC80S-0075-30AAK-3DSH	2500P/R incremental encoder, lead cable	MOT-015-L-KL-SP																													ENCHG-LL-GU	FD134S-CA-000	FD134S-EA-000	FD134S-LA-000								
		SMC80S-0075-30ABK-3DSH	2500P/R incremental encoder with brake, lead cable	MOT-015-L-KL-SP/BRA-LL-KL																																	FD134S-CB-000	FD134S-EB-000	FD134S-LB-000					
	1260W 3000rpm 4Nm	SMH110D-0120-30AAK-4DKR	2500P/R incremental encoder, connector	MOT-040-LL-KC5																																	ENCHG-LL-GU	FD144S-CA-000	FD144S-EA-000	FD144S-LA-000				
		SMH110D-0120-30ABK-4DKR	2500P/R incremental encoder with brake, connector	MOT-040-LL-KC5-B																																					FD144S-CB-000	FD144S-EB-000	FD144S-LB-000	
	1200W 3000rpm 3.8Nm	SMC130D-0120-30AAK-4DKR	2500P/R incremental encoder, connector	MOT-040-LL-KC5																																					ENCHG-LL-GU	FD144S-CA-000	FD144S-EA-000	FD144S-LA-000
		SMC130D-0120-30ABK-4DKR	2500P/R incremental encoder with brake, connector	MOT-040-LL-KC5-B																																								
1500W 3000rpm 5Nm	SMC130D-0150-30AAK-4DKR	2500P/R incremental encoder, connector	MOT-040-LL-KC5	ENCHG-LL-GU	FD144S-CA-000	FD144S-EA-000	FD144S-LA-000																																					
	SMC130D-0150-30ABK-4DKR	2500P/R incremental encoder with brake, connector	MOT-040-LL-KC5-B					FD144S-CB-000																																				

Driver and Motor Configuration Table

FD1X3 Servo Driver and Motor Selection Table

Category	Rated power/ Rated speed/ Rated torque	Servo Motor	Description	Power/ Brake Cable	Encoder Cable	Servo Driver																						
						CANopen	EtherCAT	Pulse/MODBUS 485																				
Small inertia DC48V	200W 3000rpm 0.64Nm	SMC60S-0020-30AAK-3DSH	2500P/R incremental encoder	MOT-005-L-KL-D	ENCCA-LL-KH	FD123-CA-000	FD123-EA-000	FD123-LA-000																				
		SMC60S-0020-30ABK-3DSH	2500P/R incremental encoder with brake	MOT-005-L-KL-D/BRA-LL-KL					FD123-CA-000	FD123-EA-000	FD123-LA-000																	
	400W 3000rpm 1.27Nm	SMC60S-0040-30AAK-3DSH	2500P/R incremental encoder	MOT-008-L-KL-D					ENCCA-LL-KH	FD123-CA-000	FD123-EA-000	FD123-LA-000																
		SMC60S-0040-30ABK-3DSH	2500P/R incremental encoder with brake	MOT-008-L-KL-D/BRA-LL-KL									FD123-CA-000	FD123-EA-000	FD123-LA-000													
	750W 3000rpm 2.39Nm	SMC80S-0075-30AAK-3DSH	2500P/R incremental encoder	MOT-015-L-KL-SP									ENCCA-LL-KH	FD123-CA-000	FD123-EA-000	FD123-LA-000												
		SMC80S-0075-30ABK-3DSH	2500P/R incremental encoder with brake	MOT-015-L-KL-SP/BRA-LL-KL													FD123-CA-000	FD123-EA-000	FD123-LA-000									
	200W 3000rpm 0.64Nm	SMS60S-0020-30KAK-3DSU	Multi-turn absolute encoder"	MOT-005-L-KL-D													ENCCG-(4)-GU-BT / ENCDG-LL-GU	FD123-CA-003	FD123-EA-003	FD123-LA-003								
		SMS60S-0020-30KAK-3DSU	Multi-turn absolute encoder with barik"	MOT-005-L-KL-D/BRA-LL-KL																	FD123-CA-003	FD123-EA-003	FD123-LA-003					
	400W 3000rpm 1.27Nm	SMS60S-0040-30KAK-3DSU	Multi-turn absolute encoder	MOT-008-L-KL-D																	ENCCG-(4)-GU-BT / ENCDG-LL-GU	FD123-CA-003	FD123-EA-003	FD123-LA-003				
		SMS60S-0040-30KAK-3DSU	Multi-turn absolute encoder with barik"	MOT-008-L-KL-D/BRA-LL-KL																					FD123-CA-003	FD123-EA-003	FD123-LA-003	
	750W 3000rpm 2.39Nm	SMS80S-0075-30KAK-3DSU	Multi-turn absolute encoder	MOT-015-L-KL-SP																					ENCCG-(4)-GU-BT / ENCDG-LL-GU	FD123-CA-003	FD123-EA-003	FD123-LA-003
		SMS80S-0075-30KAK-3DSU	Multi-turn absolute encoder with barik"	MOT-015-L-KL-SP/BRA-LL-KL																								