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Single axis servo drive

ED3L	- 04	A	E	A	- FSO2																																																																																																														
ED3L Servo drive	Rated output power	Voltage supply	Options	Encoder type	Extended function																																																																																																														
	<table border="1"> <tr><td>A5</td><td>0.05kW</td><td>A</td><td>200VAC</td><td>E</td><td>EtherCAT</td><td>A</td><td>Serial encoder</td><td>FSO2</td><td>Support the STO</td></tr> <tr><td>01</td><td>0.1kW</td><td>D</td><td>400VAC</td><td>M</td><td>CANopen, pulse</td><td>C</td><td>Linear encoder</td><td></td><td></td></tr> <tr><td>02</td><td>0.2kW</td><td></td><td></td><td>P</td><td>Profinet</td><td></td><td></td><td></td><td></td></tr> <tr><td>04</td><td>0.4kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>08</td><td>0.75kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>1.0kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>1.5kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>20</td><td>2.0kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>30</td><td>3.0kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>50</td><td>5.0kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>75</td><td>7.5kW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	A5	0.05kW	A	200VAC	E	EtherCAT	A	Serial encoder	FSO2	Support the STO	01	0.1kW	D	400VAC	M	CANopen, pulse	C	Linear encoder			02	0.2kW			P	Profinet					04	0.4kW									08	0.75kW									10	1.0kW									15	1.5kW									20	2.0kW									30	3.0kW									50	5.0kW									75	7.5kW												
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Note:

1. Please refer to "Model Comparison Table for details".
2. Only ED3L-04AEC and ED3L-10AEC support linear motors
3. The default model does not contain extended functions

200VAC								
Driver model: ED3L-	A5A	01A	02A	04A	08A	10A	15A	20A
Continuous output current [Arms]	0.9	1.1	1.5	2.9	5.1	6.9	9.5	12.6
Maximum output current [Arms]	3.3	4.0	5.8	11.5	19.5	21.0	31.6	42.0
Capacity of main power supply [kVA] (Single phase)	0.2	0.3	0.6	1.2	1.9	2.6	4.0	-
Capacity of main power supply [kVA] (Three-phase)	-	-	-	-	1.6	2.0	3.0	3.5

400VAC						
Driver model: ED3L-	10D	15D	20D	30D	50D	75D
Continuous output current [Arms]	3.6	5.0	7.1	12.0	17.0	27.3
Maximum output current [Arms]	10.9	16.3	21.2	36.6	53.0	70.0
Capacity of main power supply [kVA] (Three-phase)	1.8	2.8	3.5	5.0	8.2	12.0

General specification		Description	
Input power	200VAC	Single-phase AC 200V to 240VAC 200V ~ 240V, -15% ~ +10%, 50Hz/60Hz Three-phase AC 200V ~ 240V, -15% ~ +10%, 50Hz/60Hz (Power ≥ 0.75kw)	
	400VAC	Three-phase AC 380V ~ 440V, -15% ~ +10%, 50Hz/60Hz	
Operation conditions	Work environment	Temperature	When used on a single device: -5°C ~ 55°C; When multiple devices are installed snugly: -5°C ~ 40°C
		Humidity	5% to 95% (with no condensation)
	Storage environment	Temperature	-20°C ~ 85°C
		Humidity	5% to 95% (with no condensation)
	Protection Class		IP20
	Altitude		Below 1000 m
	Vibration resistance Impact resistance		Vibration Resistance: 4.9m/s ² ; Shock Resistance: 19.6m/s ²
	Power System		TN System
Installation structure		Base-mounted	
Performance	Coefficient of speed fluctuation		±0.01% of rated speed max. (For a load fluctuation of 0% to 100%) 0% of rated speed max. (For a load fluctuation of ±10%) ±0.1% of rated speed max. (For a temperature fluctuation of 25°C ±25°C)
	Soft start time setting		0 s to 10 s (Can be set separately for acceleration and deceleration.)
USB communication		Conforms to USB2.0 standard (12 Mbps)	
Display		5 bit digital tube	
Panel operator		4 Buttons	
Regenerative braking		50W ~ 400W products without built-in brake resistance Other power products have built-in brake resistance	
Protection function		Overcurrent, Overvoltage, Undervoltage, Overload, Regeneration Error, Overspeed, etc.	
Utility Functions		Alarm recording, JOG running, load inertia recognition, mechanical analyzer, automatic setting tools, etc.	

Bus type specifications		Description
Power range		50W ~ 7.5kW
I/O Signals	Input Signals	Allowable voltage range: 24 VDC±20% Number of input points: 5 (Two fixed channels can be used for Touch Probe)
	Output Signals	Operating voltage range: 5 VDC to 30 VDC Number of output points: 4 (1 of them fixed for Servo Alarm)
Communications and Standards		Standard EtherCAT/ProfiNet protocol and rules

Pulse type specifications		Description
Power range		50W ~ 7.5kW
I/O Signals	Encoder pulse division output	A-phase, B-phase, C-phase: line drive output Number of divider pulses: Arbitrary frequency division
	Input discret signals	Operating voltage range: 24 VDC±20% Number of input points: 10 (Two fixed channels can be used for Touch Probe)
	Input analog signals	DC±10V (DC±0V~±10V: Variable setting range)
	Output Signals	Operating voltage range: 5 VDC to 30 VDC Number of output points: 4 (1 of them fixed for Servo Alarm)
Torque control	External input	DC±10V (DC± 0V ~ ±10V: Variable setting range)
	Built-in set	4 torque contacts
Speed control	External input	DC±10V (DC±0V~±10V (Variable setting range)
	Built-in set	Speed 1 to Speed 7
Position control	External input	Choose one of the following input types: Symbol + Pulse Column; CCW+ CW Pulse Column; 90° Phase Difference 2 Phase Pulse (A Phase + B Phase)
	Built-in set	32 location contacts

linear drive		Description
Power range		100W ~ 1.0kW
I/O Signals	Input Signals	Allowable voltage range: 24 VDC±20% Number of input points: 5
	Output Signals	Allowable voltage range: 5 VDC to 30 VDC Number of output points: 3 (One of the fixed channels is used for servo alarm)
Encoder	Pulse signal	A, B, Z (Difference)
	Hall signal	5V single-ended signal
Communications and Standards		Standard EtherCAT protocol and rules

Dual axis servo drive

ED3L	- 04	04	A	E	A
ED3L Servo drive	A-axis output power	B-axis output power	Voltage supply	Options	Encoder type
	04 10	0.4kW 0.1kW	A 200VAC M	E EtherCAT M CANopen, pulse	A Serial encoder

Note:

1. Suitable for EM3A, EM3J, EM3G servo motor

Driver model: ED3L-	0404A	1010A
Continuous output current [Arms]	2.9	6.9
Maximum output current [Arms]	11.5	21.0
Capacity of main power supply [kVA] (Single phase)	1.9	4.5
Capacity of main power supply [kVA] (Three-phase)	1.6	3.8

Driver model: ED3L-	Specifications	
	0404AEA / 1010AEA	0404AMA / 1010AMA
Input power	Main circuit	Single phase 200 ~ 240VAC +10% ~ -15% (50/60Hz) Three-phase 200 ~ 240VAC +10% ~ -15% (50/60Hz)
	Control voltage	Single phase 200 ~ 240VAC +10% ~ -15% (50/60Hz)
	Control mode	S V P W M
Operation conditions	Service temperature / Storage temperature	Operating temperature: -5 ~ 55 °C / storage temperature: -20 ~ 85°C
	Use humidity /store humidity	5%-95% RH (no condensation, no freezing)
	Resistance to vibration / impact	Vibration resistance: 4.9 m/s ² / Impact resistance: 19.6 m/s ²
Installation structure	Installed base	

Driver model: ED3L-			Specifications	
			0404AEA / 1010AEA	0404AMA / 1010AMA
Speed control	Speed setting instruction	Direction selection	Only the parameter speed control mode is supported	Switch direction through /P-CON
		Speed selection	/	Speed 1 ~ 7 can be selected
	Function	Soft start setting	0 ~ 10s (acceleration and deceleration can be set separately)	
Position control	Command pulse	Species	/	Symbol + pulse train, CCW + CW, 90° phase difference 2-phase pulse (A+B)
		Form	/	Uninsulated wire drive approx. (+5V), open collector
		Frequency	/	×1 frequency doubling: 4Mpps ×2 frequency doubling: 2Mpps ×4 frequency doubling: 1Mpps Open collector: 200kpps Description: Frequency will decrease when duty cycle deviation occurs
	Set position instruction		/	32 position nodes can be set
Input-output signal	Sequential input signal	Channel number	5 channels	10 channels
		Function	Input signal is S-ON (servo enable), P-CON (proportional control), ALM-RST (alarm reset), CLR (position deviation clearance), P-OT (positive drive prohibition), N-OT (reverse drive prohibition), PCL (positive torque limit), NCL (negative torque limit). Except for Touch Probe, other signals can be allocated and the positive and negative logic can be changed.	
	Sequential output signal	Channel number	3 channels	4 channels
		Function	The output signals: COIN (positioning completion), VCMP (same-speed detection), TGON (motor rotation detection), ALM (servo alarm), S-RDY (servo ready), BK (brake), PGC (encoder C pulse), OT (overrange detection), HOME (zero return completion), REMOTE (REMOTE IO), TCR (torque detection). Except for ALM, all signals can be assigned and the positive and negative logic can be changed.	
Built-in function	Protection function		Over current, over voltage, under voltage, over load, regenerative fault, over speed, etc.	
	Auxiliary function		Alarm recording, JOG operation, load inertia identification, mechanical analyzer, automatic setting tools, etc.	
	Communications functions		EtherCAT communication module uses CiA402 protocol	CAN communication port, using CANopen protocol
	Display function		Five digital tubes, five buttons CHARGE, POWER, SYS, RUN, ERR, L/A OUT, AXIS-A/B	

EM3A servo motor (50W~1.0kW)

- Small capacity
- High speed
- Low inertia

EM3A	-04	A	L	A	2	4	1
	Rated output power	Voltage supply	Encoder	Design order	Shaft end	Optional	Plug type



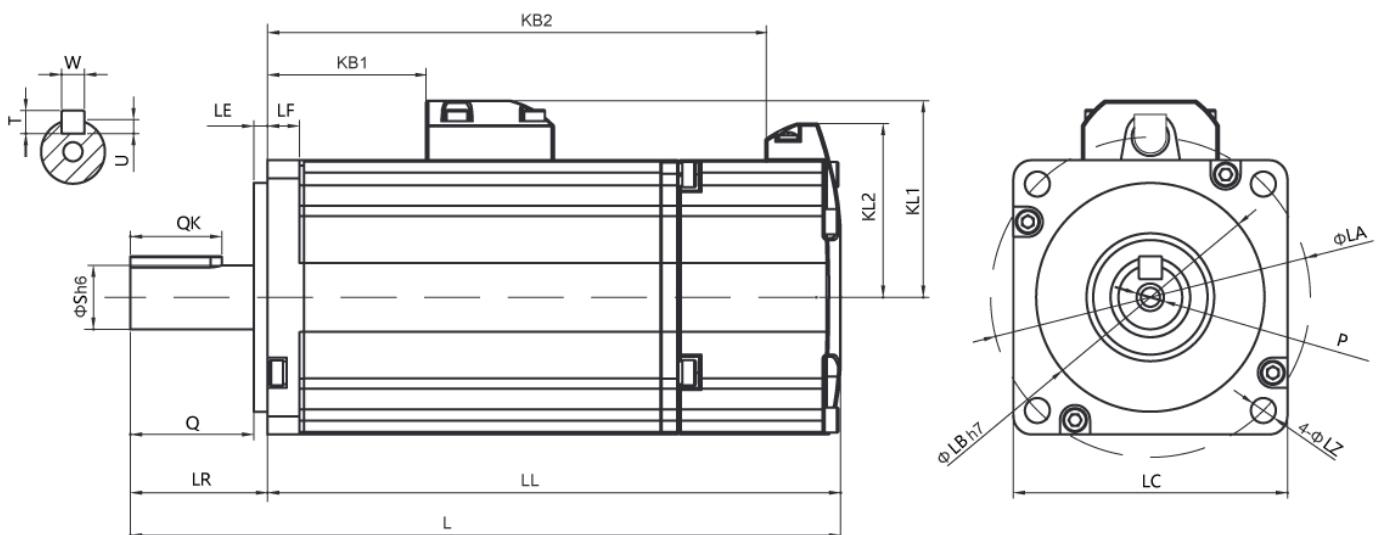
A5	0.05kW	A	200VAC	T	17-bits absolute	A	Straight, with keys, Threaded	1	No oil seals, No brakes	1	Standard plug
01	0.1kW			L	23-bits absolute			2	With oil seal, No brakes	2	Waterproof plug
02	0.2kW							3	No oil seals, With brakes		
04	0.4kW							4	With oil seal, With brakes		
08	0.75kW										
10	1.0kW										

Note:

1. Please refer to "Model Comparison Table" for details.
2. Motor body heat resistance class: F
3. Motor body protection mode: self-cooling, IP65/IP67

		200VAC																	
EM3A-		A5AT	A5AL	01AT	01AL	02AT	02AL	04AT	04AL	08AT	08AL	10AT	10AL						
Flange [mm]		40				60				80									
Rated power [kW]		0.05		0.1		0.2		0.4		0.75		1.0							
Rated speed [r/min]		3000																	
Maximum speed [r/min]		6000																	
Rated torque [N·m]		0.159		0.318		0.637		1.27		2.39		3.18							
Maximum torque [N·m]		0.557		0.954	1.11	1.91	2.23	3.81	4.46	7.17	8.37	9.54							
Rated current [Arms]		0.9		1.1		1.5		2.9		5.1		6.9							
Maximum current [Arms]		3.3		3.5	4.0	4.7	5.8	9.2	11.5	16.1	19.5	21.0							
Motor inertia [10^{-4} kg·m 2]		0.0230 (0.0268)		0.0428 (0.0465)		0.147 (0.179)		0.244(0.276)		0.910 (1.07)		1.14 (1.30)							
Allowable shaft end load	Radial [N]	78				254				392									
	Axial [N]	54				74				147									
Brake specification	Rated voltage	24VDC																	
	Holding torque [N·m]	≥ 0.32				≥ 1.5				≥ 3.2									
Weight [kg]		0.4 (0.6)		0.5 (0.7)		0.9 (1.3)		1.3 (1.7)		2.6 (3.2)		3.1 (3.8)							

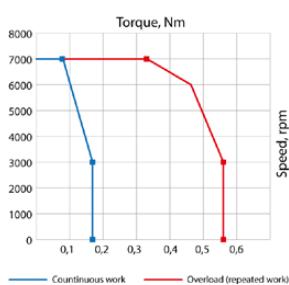
Note: The values in parentheses represent the values of motors with brakes.



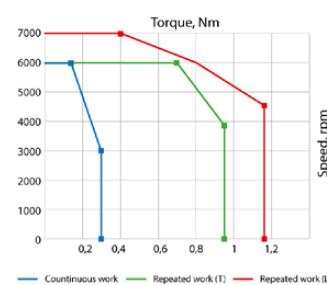
Power	EM3A-	L	LL	KB1	KB2	KL1	KL2	Flange Dimensions							S	P	Key				
								LR	LE	LF	LC	LA	LB	LZ			QK	Q	W	T	U
50W	A5AL	87.5 (121)	62.5 (96)	19.8 (32.8)	48.3 (81.8)	33	33	25	2.5	5	40	46	30	4.3	8	M3x6	14	22	3	3	1.8
100W	O1AL	103.5 (137)	78.5 (112)	35.8 (48.8)	64.3 (97.8)	33	33	25	2.5	5	40	46	30	4.3	8	M3x6	14	22.5	3	3	1.8
100W	O1AT	113.5 (147)	88.5 (122)	35.8 (48.8)	74.3 (107.8)	33	33	25	2.5	5	40	46	30	4.3	8	M3x6	14	22.5	3	3	1.8
200W	O2AL	108 (137)	78 (107)	27.5 (33.5)	61.5 (90.5)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
200W	O2AT	126.5 (155.5)	96.5 (125.5)	42.7 (48.7)	80 (109)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
400W	O4AL	129 (158)	99 (128)	48.5 (54.5)	82.5 (111.5)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
400W	O4AT	147.5 (176.5)	117.5 (146.5)	48.5 (54.5)	101 (130)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
750W	O8AL	151 (184)	111 (144)	58.2 (59.2)	35.8 (67.8)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37/35	6	6	3.5
750W	O8AT	167.5 (200.5)	127.5 (160.5)	58.2 (59.2)	52.3 (84.3)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5
1.0kW	10AL	165 (198)	125 (158)	72.2 (73.2)	35.8 (67.8)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5
1.0kW	10AT	181.5 (214.5)	141.5 (174.5)	72.2 (73.2)	34.3 (56.3)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5

Note: The values in parentheses represent the values of motors with brakes.

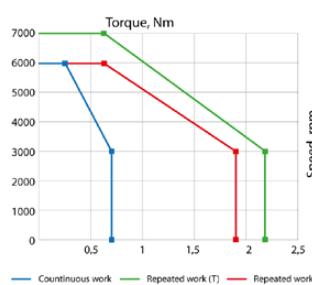
EM3A-A5



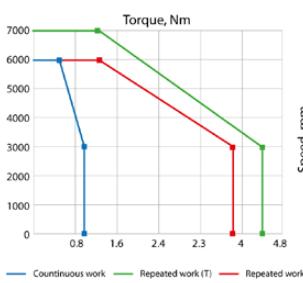
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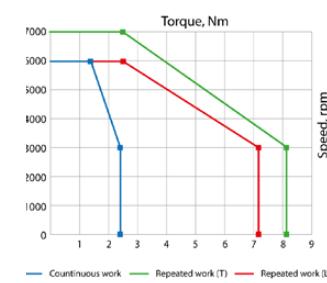
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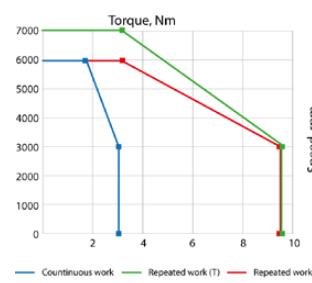
EM3A-04A



EM3A-08A



EM3A-10



EM3A servo motor (1.5kW~5kW)

- Medium capacity
- High speed
- Low inertia

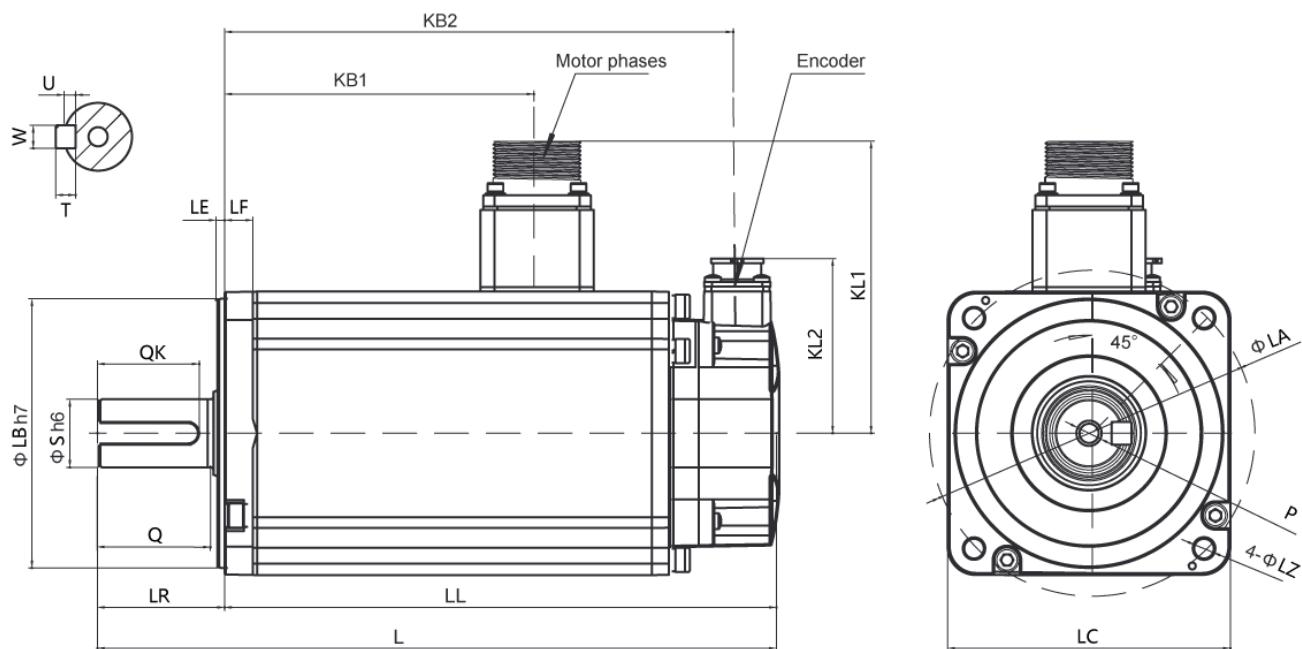
EM3A	- 15	A	L	B	2	2	4
	Rated output power	Voltage supply	Encoder	Design order	Shaft end	Optional	Plug type
	15 20 30 40 50	1.5kW 2.0kW 3.0kW 4.0kW 5.0kW	A 200VAC D 400VAC	T 17-bits absolute L 23-bits absolute	2 Straight, with keys, Threaded	1 No oil seals, No brakes 2 With oil seal, No brakes 3 No oil seals, With brakes 4 With oil seal, With brakes	4 Aviation plug

Note:

1. Please refer to "Model Comparison Table" for details
2. Motor body heat resistance class: F
3. Motor body protection mode: self-cooling, IP65

	200VAC			400VAC				
EM3A-	15A	20A	15D	20D	30D	40D	50D	
Flange [mm]	100				130			
Rated power [kW]	1.5	2.0	1.5	2.0	3.0	4.0	5.0	
Rated speed [r/min]	3000							
Maximum speed [r/min]	5000							
Rated torque [N·m]	4.78	6.37	4.78	6.37	9.80	12.8	15.9	
Maximum torque [N·m]	14.3	19.1	14.3	19.1	29.4	38.4	47.7	
Rated current [Arms]	9.5	12.6	4.9	6.4	10.5	13.0	15.9	
Maximum current [Arms]	31.6	42.0	16.3	20.5	33.0	40.0	50.0	
Motor inertia [10^{-4} kg·m 2]	2.33 (3.10)	2.95 (3.72)	2.33 (3.10)	2.95 (3.72)	7.72 (9.00)	10.2 (11.6)	14.0 (15.4)	
Allowable shaft end load	Radial [N]	686				980		
	Axial [N]	196				392		
Brake specification	Rated voltage	24VDC						
	Holding torque [N·m]	≥ 8				≥ 20		
Weight [kg]	5.1 (6.4)	6.1 (7.5)	5.1 (6.4)	6.1 (7.5)	10.0 (12.0)	12.0 (14.0)	15.5 (17.5)	

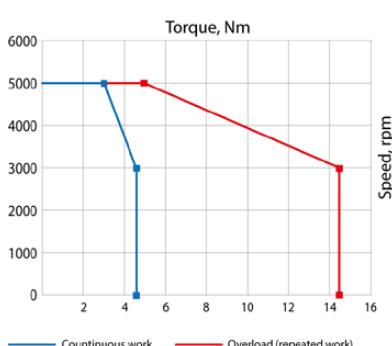
Note: The values in parentheses represent the values of motors with brakes.



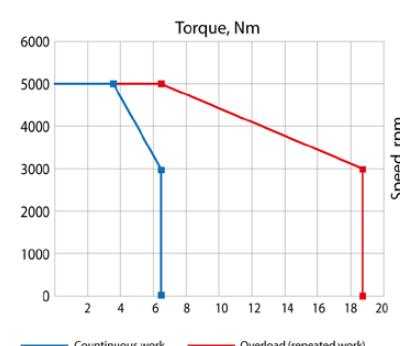
Power	EM3A-	L	LL	KB1	KB2	KL1	KL2	Flange Dimensions					S	P	Key						
								LR	LE	LF	LC	LA			QK	Q	W	T	U		
1.5kW	15□	210 (240)	165 (195)	97 (109)	150 (180)	102	60	45	3	10	100	115	95	7	24	M8×16	36	40	8	7	4
2.0kW	20□	230 (260)	185 (215)	117 (129)	170 (200)	102	60	45	3	10	100	115	95	7	24	M8×16	36	40	8	7	4
3.0kW	30D	257 (289.5)	194 (226.5)	160.5	179 (211.6)	110	60	63	6	12	130	145	110	9	28	M8×16	54	55	8	7	4
4.0kW	40D	284 (316.5)	221 (253.5)	187.5	206 (238.5)	110	60	63	6	12	130	145	110	9	28	M8×16	54	55	8	7	4
5.0kW	50D	324 (356.5)	261 (293.5)	227.5	246 (278.5)	110	60	63	6	12	130	145	110	9	28	M8×16	54	55	8	7	4

Note: The values in parentheses represent the values of motors with brakes.

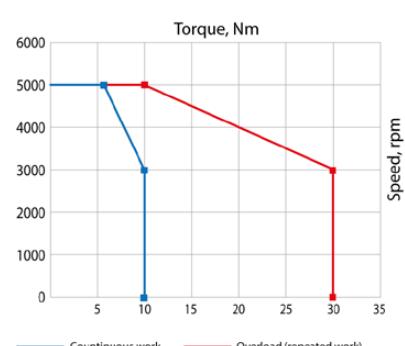
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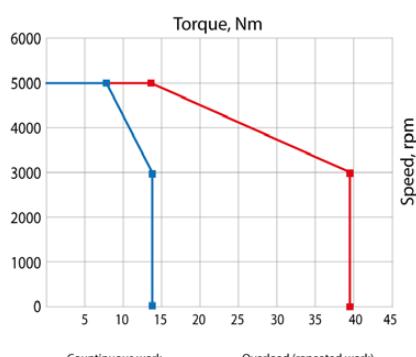
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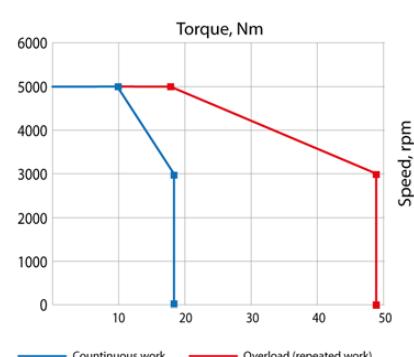
EM3A-30



EM3A-40



EM3A-50



EM3J servo motor (200W~1.0kW)

- Small capacity
- High speed
- Medium inertia

EM3J	- 04	A	L	A	2	4	2
	Rated output power	Voltage supply	Encoder	Design order	Shaft end	Optional	Plug type



02	0.2kW	A	200VAC	T	17-bits absolute
04	0.4kW	D	400VAC		
08	7.5kW			L	23-bits absolute
10	1.0kW				

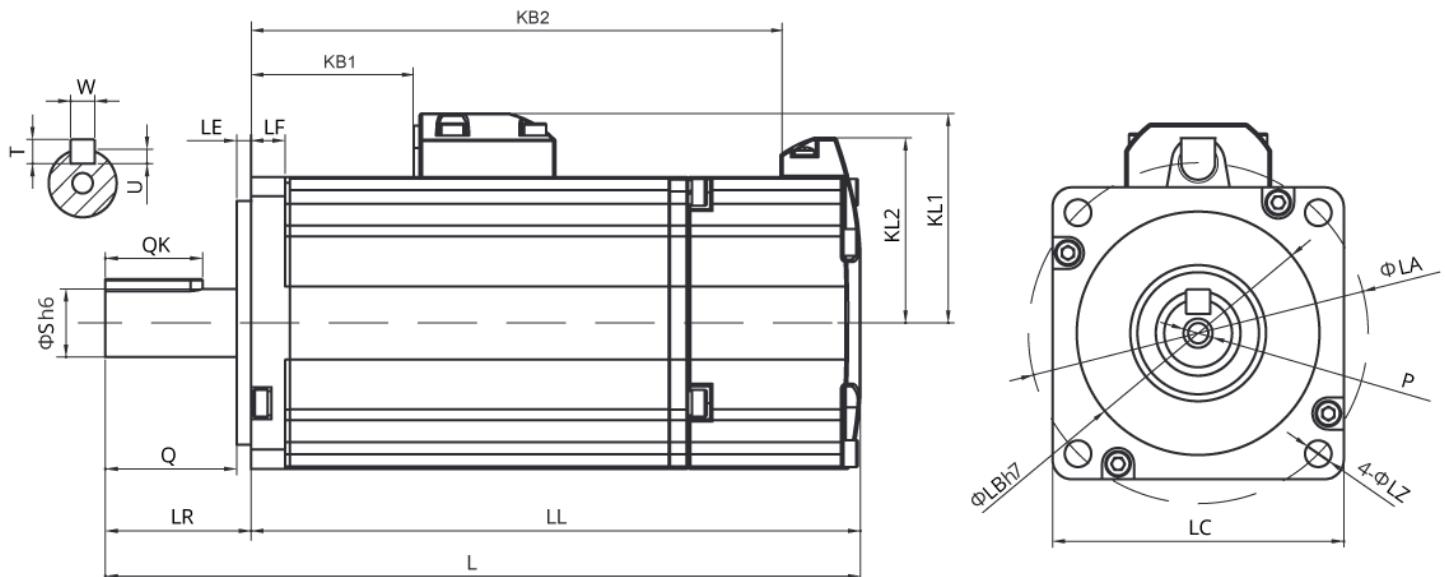
2	Straight, with Keys, Threaded	1	No oil seals, No brakes	1	Standard plug
2		2	With oil seal, No brakes	2	Waterproof plug
3		3	No oil seals, With brakes		
4		4	With oil seal, With brakes		

Note:

1. Please refer to "Model Comparison Table" for details.
2. Heat resistance grade of motor body: F
3. Motor body protection mode: self-cooling, IP65/IP67

		200VAC													
EM3J-		02AT	02AL	04AT	04AL	08AT	08AL	10AT	10AL						
Flange [mm]		60						80							
Rated power [kW]		0.2		0.4		0.75		1.0							
Rated speed [r/min]		3000													
Maximum speed [r/min]		6000													
Rated torque [N·m]		0.637		1.27		2.39		3.18							
Maximum torque [N·m]		1.91	2.23	3.81	4.46	7.17	8.37	9.54							
Rated current [Arms]		1.5		2.8		5.1		7.1							
Maximum current [Arms]		4.7	5.8	8.8	11.2	16.1	19.5	22.0							
Motor inertia [10^{-4} kg·m 2]		0.330 (0.360)		0.640 (0.680)		1.64 (1.79)		2.26 (2.41)							
Allowable shaft end load	Radial [N]	245						392							
	Axial [N]	74						147							
Brake specification	Rated voltage	24VDC													
	Holding torque [N·m]	≥ 1.5						≥ 3.2							
Weight [kg]		0.9 (1.3)		1.3 (1.7)		2.3 (2.9)		3.1 (3.8)							

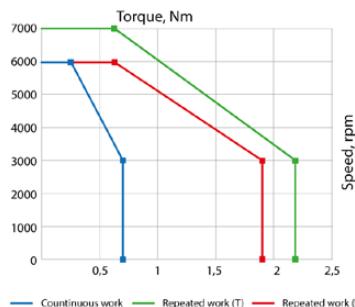
Note: The values in parentheses represent the values of motors with brakes.



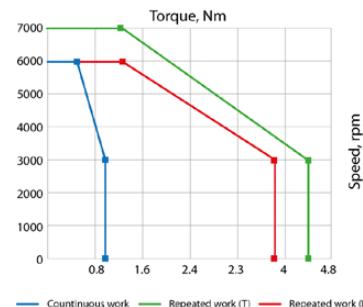
Power	EM3J-	L	LL	KB1	KB2	KL1	KL2	Flange Dimensions						S	P	Key					
								LR	LE	LF	LC	LA	LB	LZ		QK	Q	W	T	U	
200W	02AL	108 (137)	78 (107)	27.5 (33.5)	61.5 (90.5)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
200W	02AT	126.5 (155.5)	96.5 (125.5)	42.7 (48.7)	80 (109)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
400W	04AL	129 (158)	99 (128)	48.5 (54.5)	82.5 (111.5)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
400W	04AT	147.5 (176.5)	117.5 (146.5)	48.5 (54.5)	101 (130)	43	38	30	3	7	60	70	50	5.5	14	M5x12	20	27	5	5	3
750W	08AL	142 (175)	102 (135)	58.2 (59.2)	35.8 (67.8)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5
750W	08AT	158.5 (191.5)	118.5 (151.5)	58.2 (59.2)	52.3 (84.3)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5
1.0kW	10AL	157 (190)	117 (150)	72.2 (73.2)	34.3 (56.3)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5
1.0kW	10AT	173.5 (206.5)	133.5 (166.5)	72.2 (73.2)	34.3 (56.3)	53	48	40	3	8	80	90	70	6.6	19	M6x12	25	37	6	6	3.5

Note: The values in parentheses represent the values of motors with brakes.

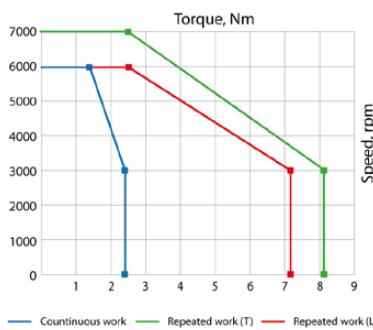
EM3J-02A



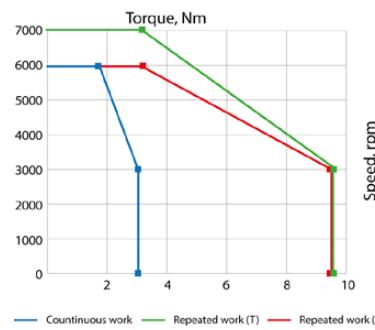
EM3J-04A



EM3J-08A



EM3J-10



EM3G servo motor (0.85kW~7.5kW)

- Medium capacity
- Medium speed
- Medium inertia

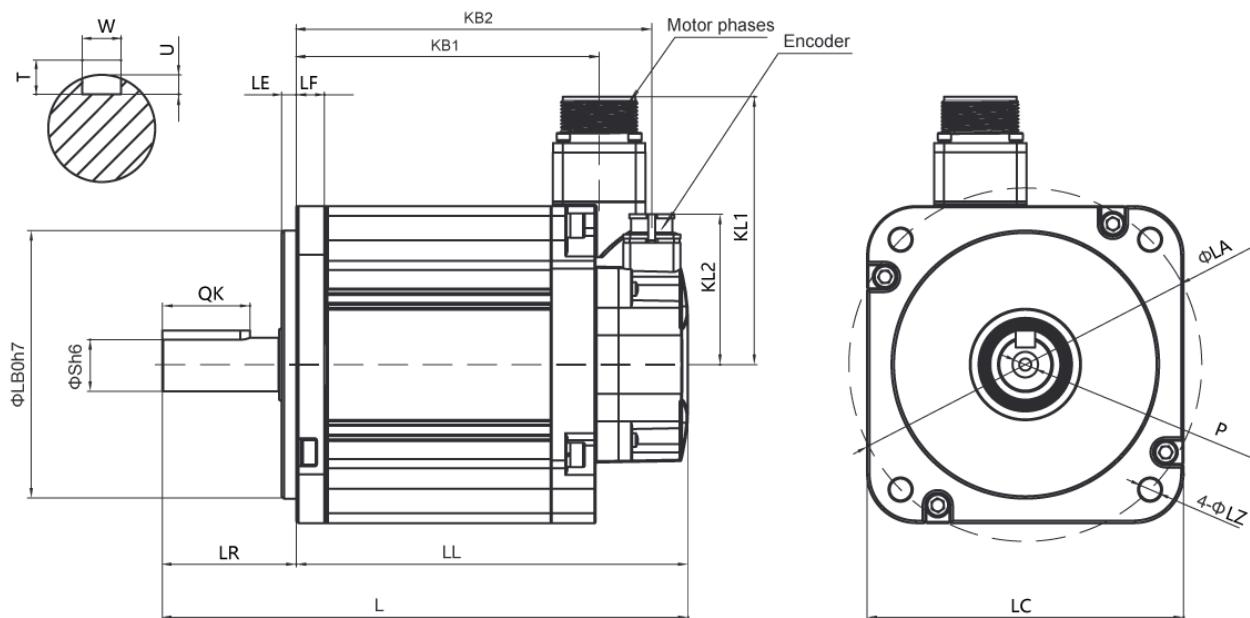
EM3G	- 13	A	L	A	2	2	4					
	Rated output power	Voltage supply	Encoder	Design order	Shaft end	Optional	Plug type					
	09 13 18 29 44 55 75	0.85kW 1.3kW 1.8kW 2.9kW 4.4kW 5.5kW 7.5kW	A D	200VAC 400VAC	T L	17-bits absolute 23-bits absolute	A	Straight, with keys, Threaded	1 2 3 4	No oil seals, No brakes With oil seal, No brakes No oil seals, With brakes With oil seal, With brakes	4	Aviation plug

Note:

1. Please refer to "Model Comparison Table" for details
2. Motor body heat resistance class: F
3. Motor body protection mode: self-cooling, IP65

		200VAC			400VAC						
EM3G-		09A	13A	18A	09D	13D	18D	29D	44D	55D	75D
Flange [mm]		130						180			
Rated power [kW]		0.85	1.3	1.8	0.85	1.3	1.8	2.9	4.4	5.5	7.5
Rated speed [r/min]		1500									
Maximum speed [r/min]		3000									
Rated torque [N·m]		5.41	8.28	11.5	5.41	8.28	11.5	18.6	28.4	35.0	48.0
Maximum torque [N·m]		16.2	24.8	31.0	16.2	24.8	31.0	55.8	80.0	105	120
Rated current [Arms]		6.8	9.7	14.5	3.4	5.0	7.1	11.5	16.8	20.3	26.5
Maximum current [Arms]		22.6	29.7	42.0	10.9	15.6	21.2	37.0	49.5	64.0	70.0
Motor inertia [10^{-4} kg·m 2]		11.9 (12.5)	17.3 (17.9)	22.3 (22.9)	11.9 (12.5)	17.3 (17.9)	22.3 (22.9)	43.4 (49.2)	58.8 (64.6)	85.5 (91.5)	117 (123)
Allowable shaft end load	Radial [N]	490	686	980	490	686	980	1470		1764	
	Axial [N]	98	343	392	98	343	392	490		588	
Brake specification	Rated voltage	24VDC									
	Holding torque [N·m]	≥ 20						≥ 44		≥ 72	
Weight [kg]		5.6 (7.3)	7.0 (8.3)	8.3 (10.0)	5.6 (7.3)	7.0 (8.3)	8.3 (10.0)	14.6 (18.8)	17.6 (21.8)	23.2 (27.8)	29.0 (33.6)

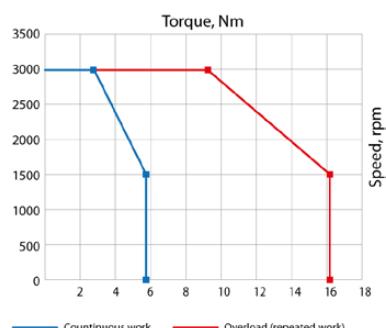
Note: The values in parentheses represent the values of motors with brakes.



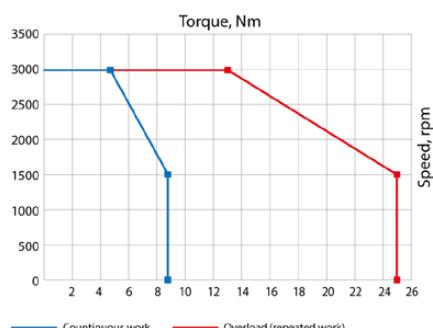
Power	EM3G-	L	LL	KB1	KB2	KL1	KL2	Flange Dimensions							S	P	Key			
								LR	LE	LF	LC	LA	LB	LZ			QK	W	T	U
0.85kW	09□	185 (215)	131 (161)	94.5	116 (146)	112	60	55	6	12	130	145	110	9	22	M6×20	32	8	7	4
1.3kW	13□	200 (230)	146 (176)	109.5	131 (161)	112	60	55	6	12	130	145	110	9	22	M6×20	32	8	7	4
1.8kW	18□	215 (245)	161 (191)	124.5	146 (176)	112	60	55	6	12	130	145	110	9	22	M6×20	32	8	7	4
2.9kW	29D	239 (284)	160 (205)	135.5 (139.8)	145.5 (190.2)	142	60	79	3.2	18	180	200	114.3	13.5	35	M12×25	65	10	8	5
4.4kW	44D	258 (303)	179 (224)	154.5 (158.8)	164.5 (209.2)	142	60	79	3.2	18	180	200	114.3	13.5	35	M12×25	65	10	8	5
5.5kW	55D	324 (377)	221 (264)	186.5 (198.8)	196.5 (249.2)	142	60	113	3.2	18	180	200	114.3	13.5	42	M16×32	96	12	10	5
7.5kW	75D	360 (413)	247 (300)	222.5 (234.8)	232.5 (285.2)	142	60	113	3.2	18	180	200	114.3	13.5	42	M16×32	96	12	10	5

Note: The values in parentheses represent the values of motors with brakes.

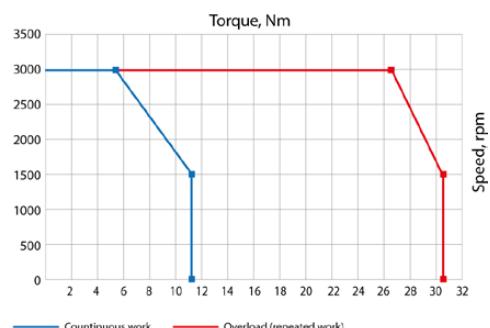
EM3G-09



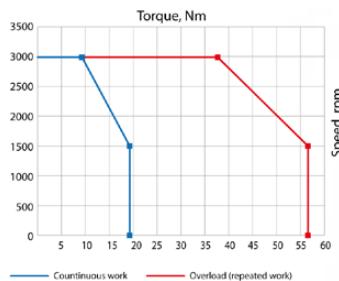
EM3G-13



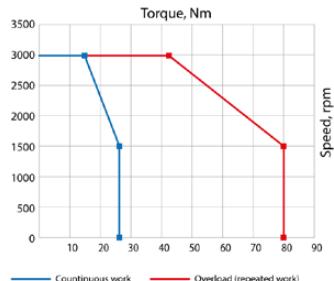
EM3G-18



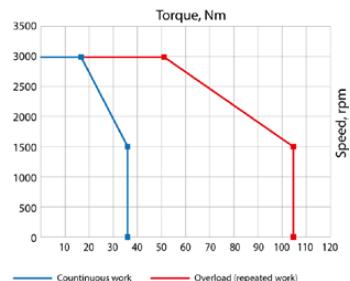
EM3G-29



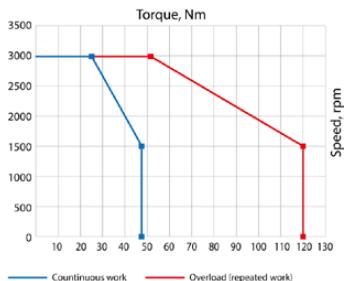
EM3G-44



EM3G-55



EM3G-75



EM3L servo motor (1kW~4kW)

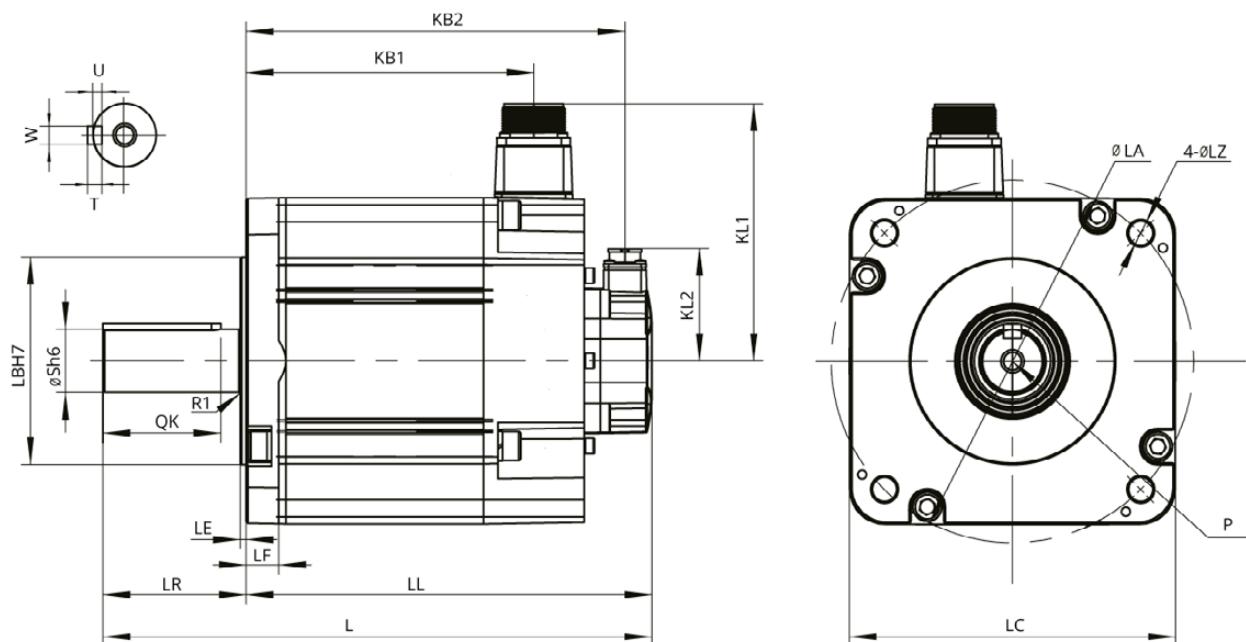
- Medium capacity
- Low speed
- High inertia

EM3L	- 10	D	L	A	2	2	4																																
	Rated output power	Voltage supply	Encoder	Design order	Shaft end	Optional	Plug type																																
	<table border="1"> <tr><td>10</td><td>1.0kW</td><td>D</td><td>400VAC</td><td>T</td><td>17-bits absolute</td><td></td><td></td></tr> <tr><td>20</td><td>2.0kW</td><td></td><td></td><td>L</td><td>23-bits absolute</td><td></td><td></td></tr> <tr><td>30</td><td>3.0kW</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>40</td><td>4.0kW</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	10	1.0kW	D	400VAC	T	17-bits absolute			20	2.0kW			L	23-bits absolute			30	3.0kW							40	4.0kW										A	Straight, with Keys, Threaded	
10	1.0kW	D	400VAC	T	17-bits absolute																																		
20	2.0kW			L	23-bits absolute																																		
30	3.0kW																																						
40	4.0kW																																						
					1	No oil seals, No brakes	4 Aviation plug																																
					2	With oil seal, No brakes																																	
					3	No oil seals, With brakes																																	
					4	With oil seal, With brakes																																	

Note:
1. Please refer to "Model Comparison Table" for details.
2. Motor body heat resistance class: F
3. Motor body protection mode: self-cooling, IP65

		400VAC			
EM3L-		10D	20D	30D	40D
Flange [mm]		130	180		
Rated power [kW]		1.0	2.0	3.0	4.0
Rated speed [r/min]		1000			
Maximum speed [r/min]		1500			
Rated torque [N·m]		9.55	19.1	28.7	38.2
Maximum torque [N·m]		31.0	69.0	105.0	120.0
Rated current [Arms]		3.1	5.2	8.6	10.9
Maximum current [Arms]		10.0	20.2	34.7	34.6
Motor inertia [10^{-4} kg·m 2]		22.3 (22.9)	58.5 (64.6)	85.5 (91.5)	116.8 (123)
Allowable shaft end load	Radial [N]	980	1470	1764	
	Axial [N]	392	490	588	
Brake specification	Rated voltage	24VDC			
	Holding torque [N·m]	≥20	≥44	≥72	
Weight [kg]		8.3 (10.0)	17.6 (21.8)	23.2 (27.8)	29.0 (33.6)

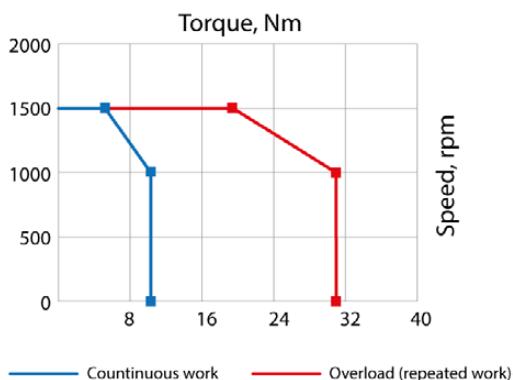
Note: The values in parentheses represent the values of motors with brakes.



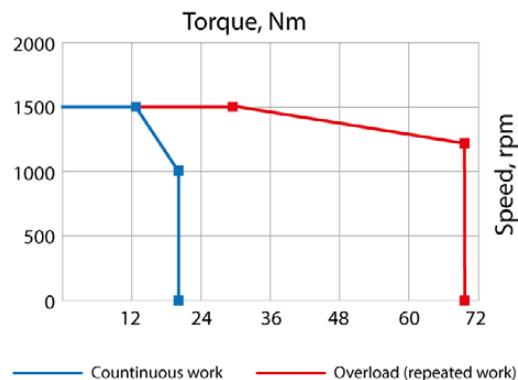
Power	EM3L-	L	LL	KB1	KB2	KL1	KL2	Flange Dimensions							S	P	Key			
								LR	LE	LF	LC	LA	LB	LZ			QK	W	T	U
1.0kW	10D	215 (245)	161 (191)	124.5 (124.5)	146 (176)	112	58.5	55	6	12	130	145	110	9	22	M6x20	36	8	7	4
2.0kW	20D	258 (303)	179 (224)	154.5 (158.8)	164 (209)	142	62	79	3.2	18	180	200	114.3	13.5	35	M12x25	65	10	8	5
3.0kW	30D	290 (343)	211 (264)	186.5 (198.8)	196 (249)	142	62	79	3.2	18	180	200	114.3	13.5	35	M12x25	65	10	8	5
4.0kW	40D	360 (413)	247 (300)	222.5 (234.8)	232 (285)	142	62	113	3.2	18	180	200	114.3	13.5	42	M12x25	96	12	8	5

Note: The values in parentheses represent the values of motors with brakes.

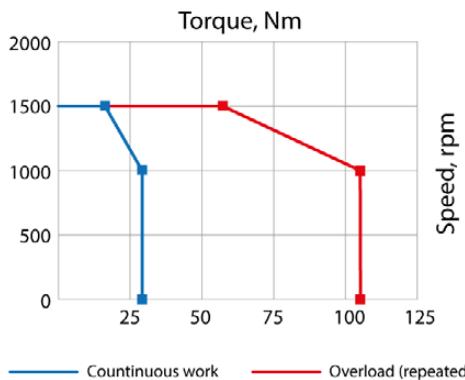
EM3L-10D



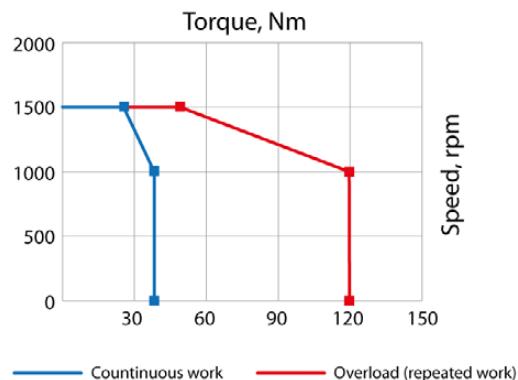
EM3L-20D



EM3L-30D



EM3L-40D



MODEL COMPARISON TABLE

EM3A | Low inertia | 3000 r\min

Power	Motor model	Brake	Connector	Flange	Trunnion	Drive	Input power				
50W	EM3A-A5ALA221	—	Standard wire	40mm	Ø8	ED3L-A5A	Single phase AC 200V~240V				
	EM3A-A5ALA241	✓									
	EM3A-A5ALA222	—	Waterproof wire								
	EM3A-A5ALA242	✓									
100W	EM3A-01ATA221	—	Standard wire	40mm	Ø8	ED3L-01A	Single phase AC 200V~240V				
	EM3A-01ATA241	✓									
	EM3A-01ATA222	—	Waterproof wire								
	EM3A-01ATA242	✓									
	EM3A-01ALA221	—	Standard wire								
	EM3A-01ALA241	✓									
	EM3A-01ALA222	—	Waterproof wire								
	EM3A-01ALA242	✓									
200W	EM3A-02ATA221	—	Standard wire	60mm	Ø14	ED3L-02A ED3L-0404A	ED3L-02A - Single phase AC 200V~240V ED3L-0404A - Single phase/three phase AC 200V~240V				
	EM3A-02ATA241	✓									
	EM3A-02ATA222	—	Waterproof wire								
	EM3A-02ATA242	✓									
	EM3A-02ALA221	—	Standard wire								
	EM3A-02ALA241	✓									
	EM3A-02ALA222	—	Waterproof wire								
	EM3A-02ALA242	✓									
400W	EM3A-04ATA221	—	Standard wire	60mm	Ø14	ED3L-04A ED3L-0404A	ED3L-04A - Single phase AC 200V~240V ED3L-0404A - Single phase/three phase AC 200V~240V				
	EM3A-04ATA241	✓									
	EM3A-04ATA222	—	Waterproof wire								
	EM3A-04ATA242	✓									
	EM3A-04ALA221	—	Standard wire								
	EM3A-04ALA241	✓									
	EM3A-04ALA222	—	Waterproof wire								
	EM3A-04ALA242	✓									

Power	Motor model	Brake	Connector	Flange	Trunnion	Drive	Input power	Power cable	Encoder cable						
750W	EM3A-08ATA221	—	Standard wire	80mm	Ø19	ED3L-08A ED3L-1010A	Single phase / three phase AC 200V~240V	—	—						
	EM3A-08ATA241	✓													
	EM3A-08ATA222	—	Waterproof wire												
	EM3A-08ATA242	✓													
	EM3A-08ALA221	—	Standard wire												
	EM3A-08ALA241	✓													
	EM3A-08ALA222	—	Waterproof wire												
	EM3A-08ALA242	✓													
1.0kW	EM3A-10ATA221	—	Standard wire	80mm	Ø19	ED3L-10A ED3L-1010A	Single phase / three phase AC 200V~240V	—	—						
	EM3A-10ATA241	✓													
	EM3A-10ATA222	—	Waterproof wire												
	EM3A-10ATA242	✓													
	EM3A-10ALA221	—	Standard wire												
	EM3A-10ALA241	✓													
	EM3A-10ALA222	—	Waterproof wire												
	EM3A-10ALA242	✓													
1.5kW	EM3A-15ATB224	—	Aviation Plug	100mm	Ø24	ED3L-15A	Single phase / three phase AC 200V~240V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery)						
	EM3A-15ATB244	✓						EC3P-B9314-□□							
	EM3A-15ALB224	—						EC3P-N9314-□□							
	EM3A-15ALB244	✓						EC3P-B9314-□□							
	EM3A-15DTB224	—				ED3L-15D	Three phase AC 380V~440V	EC3P-N9314-□□							
	EM3A-15DTB244	✓						EC3P-B9314-□□							
	EM3A-15DLB224	—						EC3P-N9314-□□							
	EM3A-15DLB244	✓						EC3P-B9314-□□							
2.0kW	EM3A-20ATB224	—	Aviation Plug	100mm	Ø24	ED3L-20A	Single phase / three phase AC 200V~240V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery)						
	EM3A-20ATB244	✓						EC3P-B9314-□□							
	EM3A-20ALB224	—						EC3P-N9314-□□							
	EM3A-20ALB244	✓						EC3P-B9314-□□							
	EM3A-20DTB224	—				ED3L-20D	Three phase AC 380V~440V	EC3P-N9314-□□							
	EM3A-20DTB244	✓						EC3P-B9314-□□							
	EM3A-20DLB224	—						EC3P-N9314-□□							
	EM3A-20DLB244	✓						EC3P-B9314-□□							
3.0kW	EM3A-30DTA224	—	Aviation Plug	130mm	Ø28	ED3L-30D	Three phase AC 380V~440V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery)						
	EM3A-30DTA244	✓						EC3P-B9314-□□							
	EM3A-30DLA224*	—						EC3P-N9314-□□							
	EM3A-30DLA244*	✓						EC3P-B9314-□□							
4.0kW	EM3A-40DTA224	—	Aviation Plug	130mm	Ø28	ED3L-50D	Three phase AC 380V~440V	EC3P-N9319-□□	EC3S-A1924-□□ (Including battery)						
	EM3A-40DTA244	✓						EC3P-B9319-□□							
	EM3A-40DLA224*	—						EC3P-N9319-□□							
	EM3A-40DLA244*	✓						EC3P-B9319-□□							
5.0kW	EM3A-50DTA224	—	Aviation Plug	130mm	Ø28	ED3L-50D	Three phase AC 380V~440V	EC3P-N9319-□□	EC3S-A1924-□□ (Including battery)						
	EM3A-50DTA244	✓						EC3P-B9319-□□							
	EM3A-50DLA224*	—						EC3P-N9319-□□							
	EM3A-50DLA244*	✓						EC3P-B9319-□□							

EM3G | Medium inertia | 1500 r\min

Power	Motor model	Brake	Connector	Flange	Trunnion	Drive	Input power	Power cable	Encoder cable
850W	EM3G-09ATA224	—	Aviation Plug	130mm	Ø22	ED3L-10A ED3L-1010A	Single phase / three phase AC 200V~240V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery)
	EM3G-09ATA244	✓						EC3P-B9314-□□	
	EM3G-09ALA224	—						EC3P-N9314-□□	
	EM3G-09ALA244	✓						EC3P-B9314-□□	
	EM3G-09DTA224	—				ED3L-10D	Three phase AC 380V~440V	EC3P-N9314-□□	EC3S-I1924-□□ (No battery)
	EM3G-09DTA244	✓						EC3P-B9314-□□	
	EM3G-09DLA224	—						EC3P-N9314-□□	
	EM3G-09DLA244	✓						EC3P-B9314-□□	
1.3kW	EM3G-13ATA224	—	Aviation Plug	130mm	Ø22	ED3L-15A	Single phase / three phase AC 200V~240V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery)
	EM3G-13ATA244	✓						EC3P-B9314-□□	
	EM3G-13ALA224	—						EC3P-N9314-□□	
	EM3G-13ALA244	✓						EC3P-B9314-□□	
	EM3G-13DTA224	—				ED3L-15D	Three phase AC 380V~440V	EC3P-N9314-□□	EC3S-I1924-□□ (No battery)
	EM3G-13DTA244	✓						EC3P-B9314-□□	
	EM3G-13DLA224	—						EC3P-N9314-□□	
	EM3G-13DLA244	✓						EC3P-N9314-□□	
1.8kW	EM3G-18ATA224	—	Aviation Plug	130mm	Ø22	ED3L-20A	Three phase AC 380V~440V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery)
	EM3G-18ATA244	✓						EC3P-B9314-□□	
	EM3G-18ALA224	—						EC3P-N9314-□□	
	EM3G-18ALA244	✓						EC3P-B9314-□□	
	EM3G-18DTA224	—				ED3L-20D	Three phase AC 380V~440V	EC3P-N9314-□□	EC3S-I1924-□□ (No battery)
	EM3G-18DTA244	✓						EC3P-B9314-□□	
	EM3G-18DLA224	—						EC3P-N9314-□□	
	EM3G-18DLA244	✓						EC3P-B9314-□□	
2.9kW	EM3G-29DTA224	—	Aviation Plug	180mm	Ø35	ED3L-30D	Three phase AC 380V~440V	EC3P-N8214-□□	EC3S-A1924-□□ (Including battery)
	EM3G-29DTA244	✓						EC3P-B8214-□□	
	EM3G-29DLA224	—						EC3P-N8214-□□	
	EM3G-29DLA244	✓						EC3P-B8214-□□	
4.4kW	EM3G-44DTA224	—	Aviation Plug	180mm	Ø35	ED3L-50D	Three phase AC 380V~440V	EC3P-N9212-□□	EC3S-A1924-□□ (No battery)
	EM3G-44DTA244	✓						EC3P-B9212-□□	
	EM3G-44DLA224	—						EC3P-N9212-□□	
	EM3G-44DLA244	✓						EC3P-B9212-□□	
5.5kW	EM3G-55DTA224	—	Aviation Plug	180mm	Ø42	ED3L-75D	Three phase AC 380V~440V	EC3P-N9212-□□	EC3S-A1924-□□ (Including battery)
	EM3G-55DTA244	✓						EC3P-B9212-□□	
	EM3G-55DLA224	—						EC3P-N9212-□□	
	EM3G-55DLA244	✓						EC3P-B9212-□□	
7.5kW	EM3G-75DTA224	—	Aviation Plug	180mm	Ø42	ED3L-75D	Three phase AC 380V~440V	EC3P-N9211-□□	EC3S-A1924-□□ (Including battery)
	EM3G-75DTA244	✓						EC3P-B9211-□□	
	EM3G-75DLA224	—						EC3P-N9211-□□	
	EM3G-75DLA244	✓						EC3P-B9211-□□	

EM3J | Medium inertia | 3000 r\min

Power	Motor model		Connector	Flange	Trunnion	Drive	Input power	Power cable	Encoder cable				
200W	EM3J-02ATA221	—	Standard wire	60mm	Ø14	ED3L-02A ED3L-0404A	Single phase 200V~240V	EC3P-N9118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-02ATA241	✓						EC3P-B9118-□□					
	EM3J-02ATA222	—	Waterproof wire					EC3P-N9718-□□	EC3S-A1724-□□ (Including battery) EC3S-I1724-□□ (No battery)				
	EM3J-02ATA242	✓						EC3P-B9718-□□					
	EM3J-02ALA221	—	Standard wire					EC3P-N9118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-02ALA241	✓						EC3P-B9118-□□					
	EM3J-02ALA222	—	Waterproof wire					EC3P-N9718-□□	EC3S-A1724-□□ (Including battery) EC3S-I1724-□□ (No battery)				
	EM3J-02ALA242	✓						EC3P-B9718-□□					
400W	EM3J-04ATA221	—	Standard wire	60mm	Ø14	ED3L-04A ED3L0404A	Single phase / three phase AC 200V~240V	EC3P-N9118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-04ATA241	✓						EC3P-B9118-□□					
	EM3J-04ATA222	—	Waterproof wire					EC3P-N9718-□□	EC3S-A1724-□□ (Including battery) EC3S-I1724-□□ (No battery)				
	EM3J-04ATA242	✓						EC3P-B9718-□□					
	EM3J-04ALA221	—	Standard wire					EC3P-N9118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-04ALA241	✓						EC3P-B9118-□□					
	EM3J-04ALA222	—	Waterproof wire					EC3P-N9718-□□	EC3S-A1724-□□ (Including battery) EC3S-I1724-□□ (No battery)				
	EM3J-04ALA242	✓						EC3P-B9718-□□					
750W	EM3J-08ATA221	—	Standard wire	80mm	Ø19	ED3L-08A ED3L1010A	Single phase / three phase AC 200V~240V	EC3P-N8118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-08ATA241	✓						EC3P-B8118-□□					
	EM3J-08ATA222	—	Waterproof wire					EC3P-N8718-□□	EC3S-A1724-□□ (Including battery) EC3S-I1724-□□ (No battery)				
	EM3J-08ATA242	✓						EC3P-B8718-□□					
	EM3J-08ALA221	—	Standard wire					EC3P-N8118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-08ALA241	✓						EC3P-B8118-□□					
	EM3J-08ALA222	—	Waterproof wire					EC3P-N8718-□□	EC3S-A1724-□□ (Including battery) EC3S-I1724-□□ (No battery)				
	EM3J-08ALA242	✓						EC3P-B8718-□□					
1.0kW	EM3J-10ATA221	—	Standard wire	80mm	Ø19	ED3L-10A ED3L1010A	Single phase / three phase AC 200V~240V	EC3P-N8118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-10ATA241	✓						EC3P-B8118-□□					
	EM3J-10ALA221	—						EC3P-N8118-□□					
	EM3J-10ALA241	✓						EC3P-B8118-□□					
	EM3J-10DTA221	—	Three phase AC 380V~440V	ED3L-10D	ED3L-10D	ED3L-10D	Three phase AC 380V~440V	EC3P-N8118-□□	EC3S-A1124-□□ (Including battery) EC3S-I1124-□□ (No battery)				
	EM3J-10DTA241	✓						EC3P-B8118-□□					
	EM3J-10DLA221	—						EC3P-N8118-□□					
	EM3J-10DLA241	✓						EC3P-B8118-□□					

EM3L | High inertia | 1000 r\min

Power	Motor model		Connector	Flange	Trunnion	Drive	Input power	Power cable	Encoder cable
1kW	EM3L-10DLA224	—	Aviation Plug	130mm	Ø22	ED3L-10D	Three phase AC 380V~440V	EC3P-N9314-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-10DLA244	✓						EC3P-B9314-□□	
	EM3L-10DTA224	—						EC3P-N9314-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-10DTA244	✓						EC3P-B9314-□□	
2kW	EM3L-20DLA224	—	Aviation Plug	180mm	Ø35	ED3L-20D	Three phase AC 380V~440V	EC3P-B9314-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-20DLA244	✓						EC3P-B9212-□□	
	EM3L-20DTA224	—						EC3P-N9212-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-20DTA244	✓						EC3P-B9212-□□	
3kW	EM3L-30DLA224	—	Aviation Plug	180mm	Ø35	ED3L-30D	Three phase AC 380V~440V	EC3P-B9212-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-30DLA244	✓						EC3P-B9212-□□	
	EM3L-30DTA224	—						EC3P-N9212-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-30DTA244	✓						EC3P-B9212-□□	
4kW	EM3L-40DLA224	—	Aviation Plug	180mm	Ø42	ED3L-50D	Three phase AC 380V~440V	EC3P-B9212-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-40DLA244	✓						EC3P-B9212-□□	
	EM3L-40DTA224	—						EC3P-N9211-□□	EC3S-A1924-□□ (Including battery) EC3S-I1924-□□ (No battery)
	EM3L-40DTA244	✓						EC3P-B9211-□□	

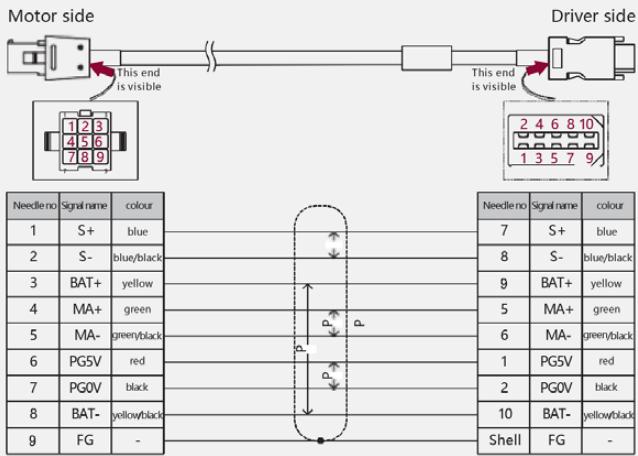
Note:

1. "—" Represents a model without brakes, "✓" Indicates a model with brakes.
2. Encoder cable with battery is selected by default, If there is no absolute demand, You can select the battery free cable model.
3. □□ in the cable model indicates the length. Standard length: 1M5 (1.5m), 03 (3m), 05 (5m), 08 (8m), 10 (10m), 12 (12m), 15 (15m), 20 (20m). Flexible cables are optional, marked with -Rx. For example, the model of EC3P-N9118-03 flexible cable is EC3P-N9118-RX-03. Example: EC3P-N9118-03 Shielded cable model: EC3P-N9118-SS-03.
4. The selection of I/O plug is determined by the driver: EtherCAT / PN driver product: 26 pin plug (sm-26J). Pulse driver products: 50-pin plug (SM-50J).
5. Optional debugging cable model: USB communication cable MINI USB-double magnetic ring shielding -1 M5.
6. Optional communication cable model: DK-HSB-RJ45-CAT5E-XX.

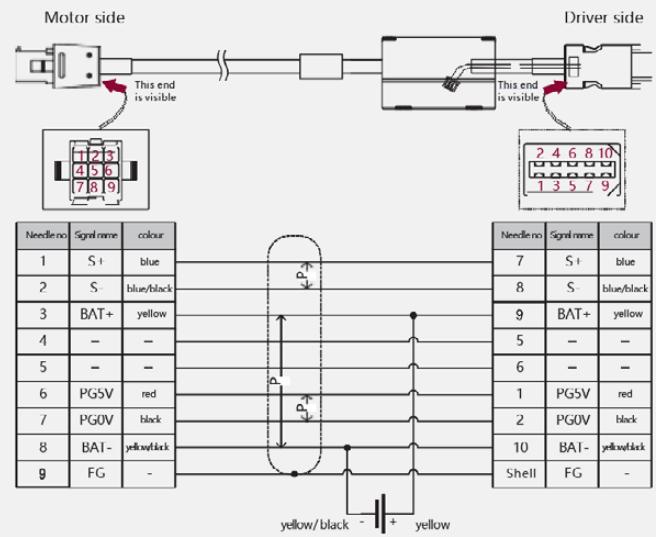
ACCESSORIES

Encoder cable

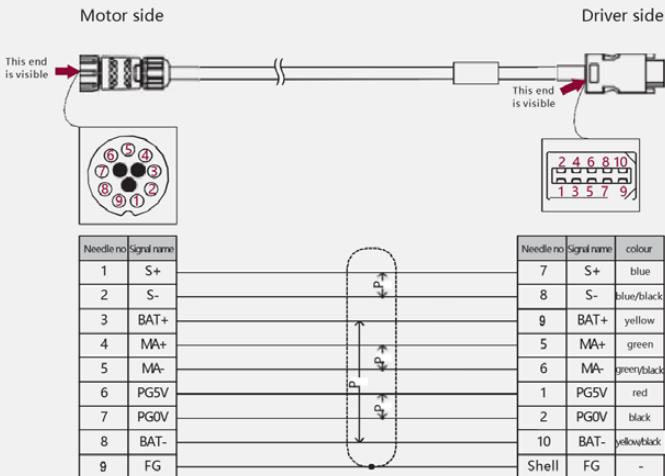
EC3S-I1124-XX (Incremental)



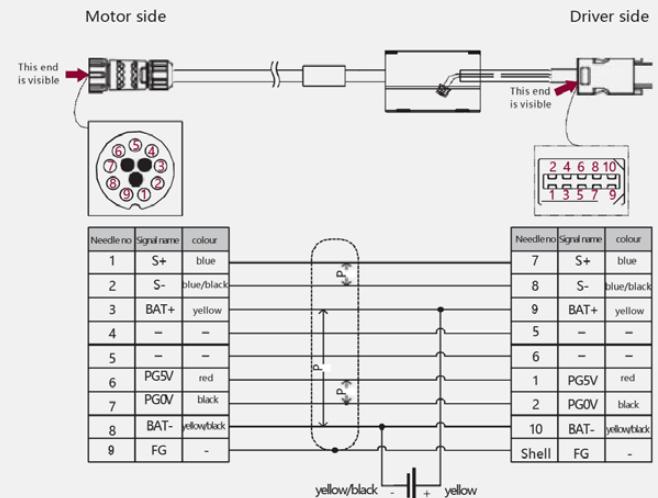
EC3S-A1124-XX (Absolute)



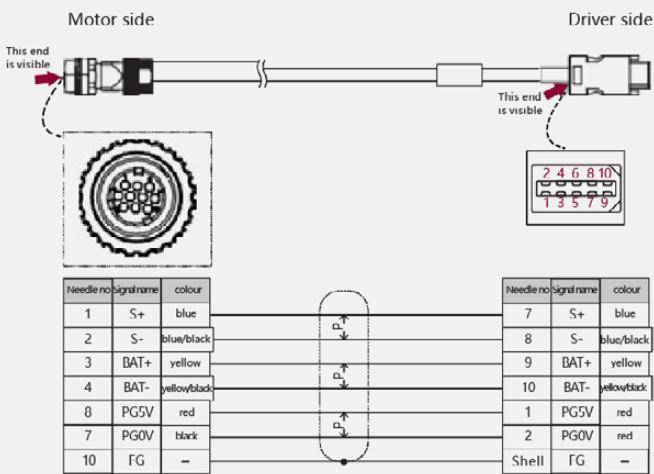
EC3S-I1724-XX (Incremental)



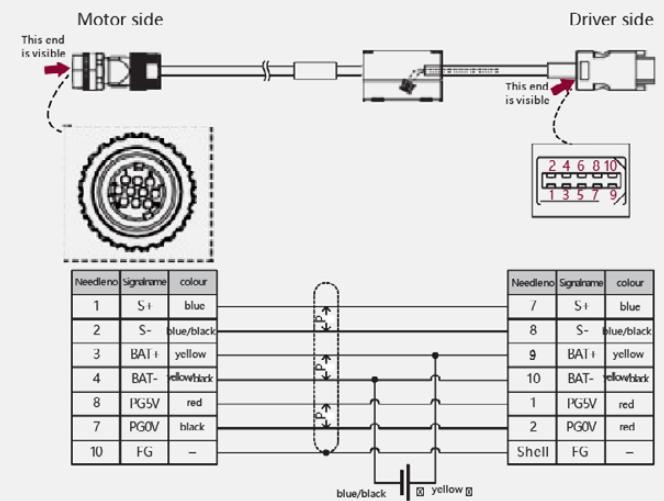
EC3S-A1724-XX (Absolute)



EC3S-I1924-□ (Incremental)

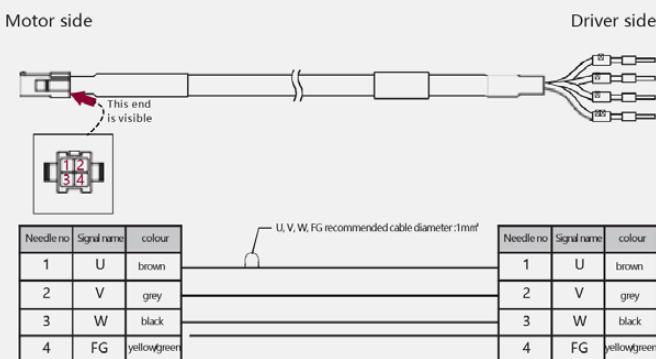


EC3S-A1924-□ (Absolute)

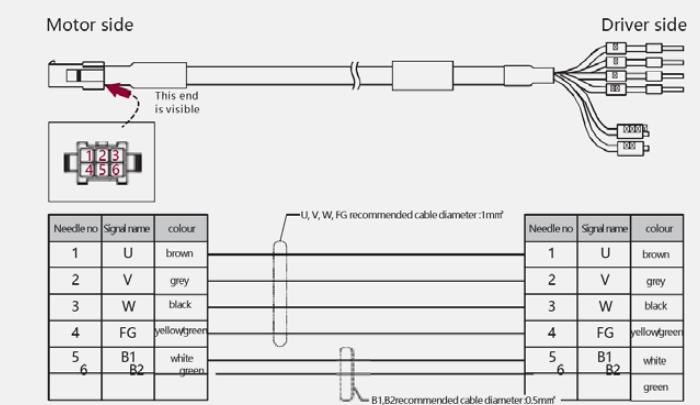


Power cable

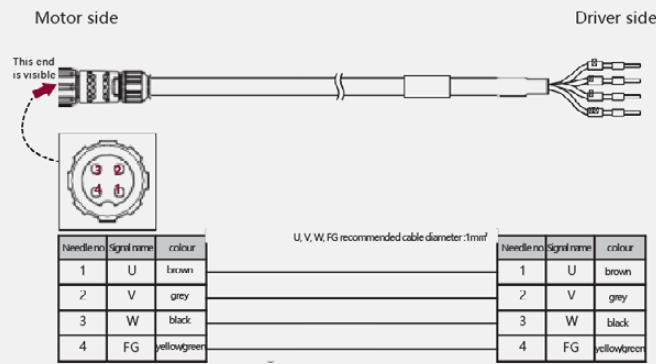
EC3P-N9118-□ (No brake)



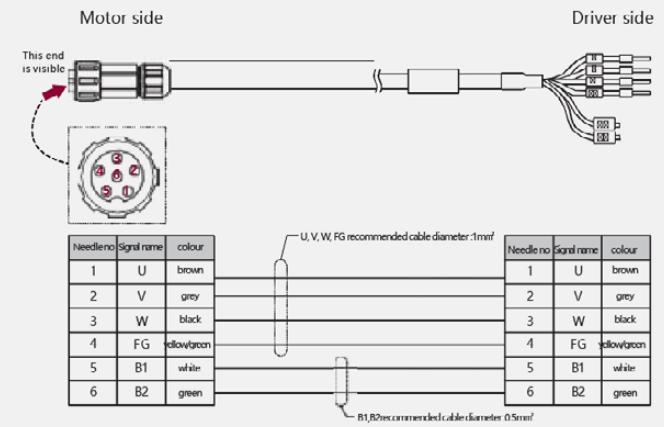
EC3P-B9118-□ (With brake)



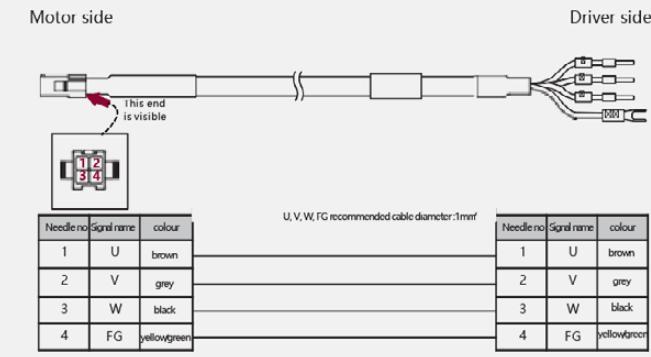
EC3P-N9718-□□ (No brake)



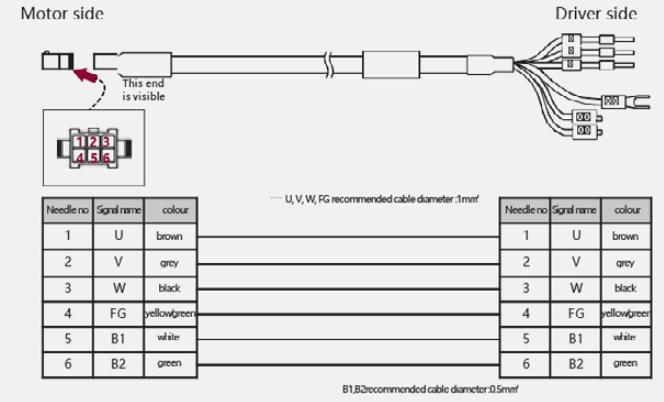
EC3P-B9718-□□ (With brake)



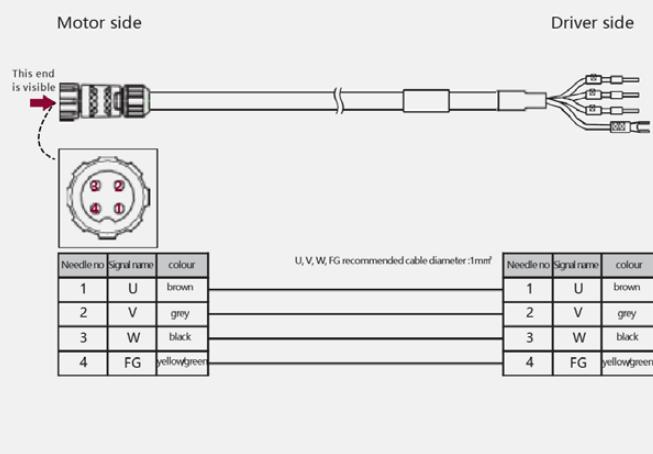
EC3P-N8118-□□ (No brake)



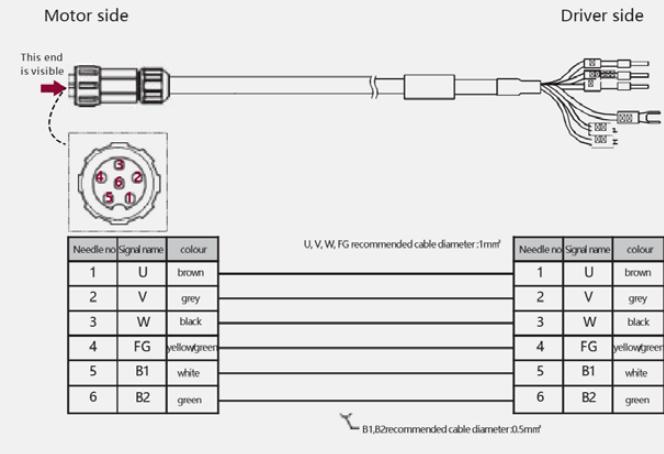
EC3P-B8118-□□ (With brake)



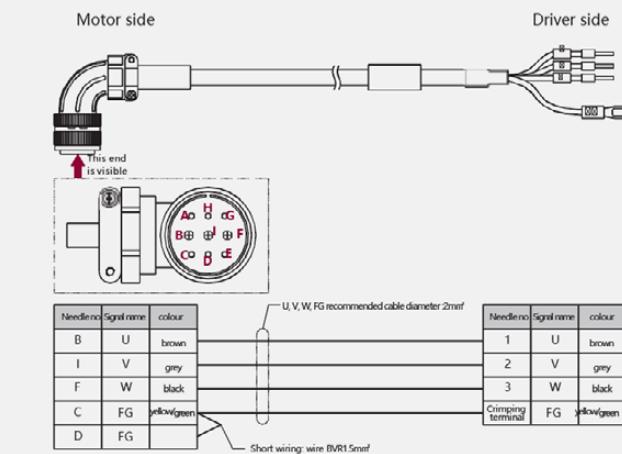
EC3P-N8718-□□ (No brake)



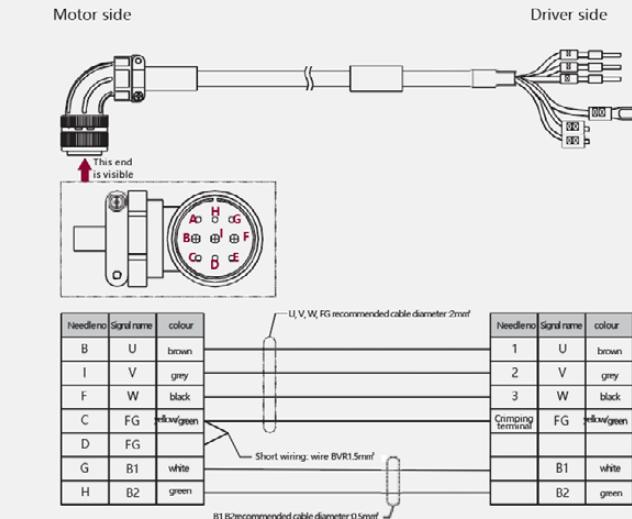
EC3P-B8718-□□ (With brake)



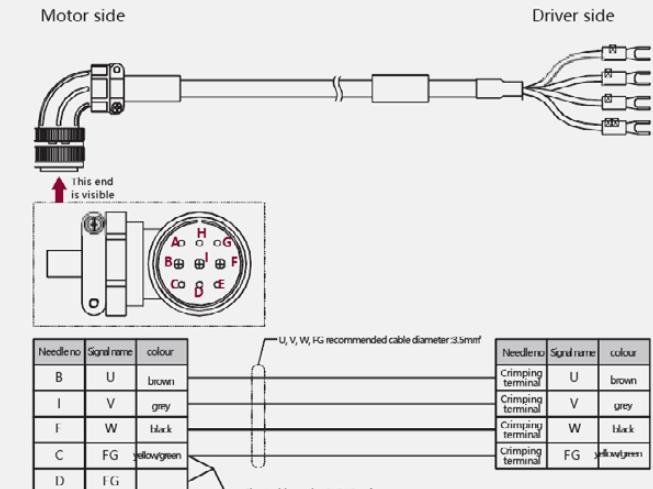
EC3P-N9314-□□ (No brake)



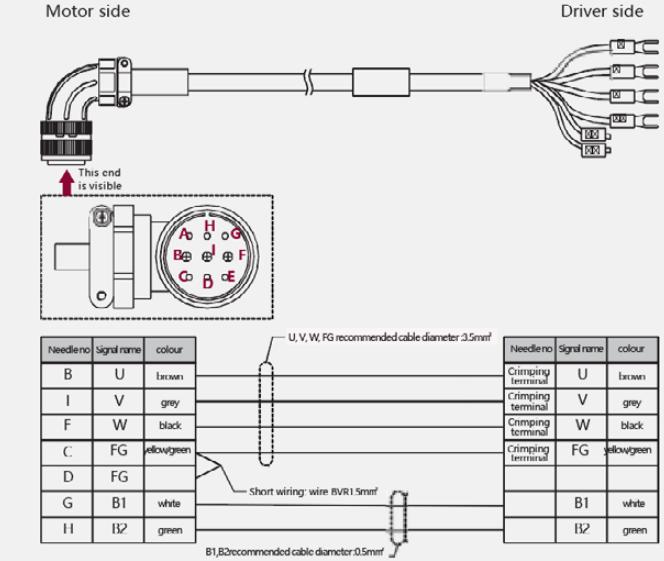
EC3P-B9314-□□ (With brake)



EC3P-N9319-□□ (No brake)

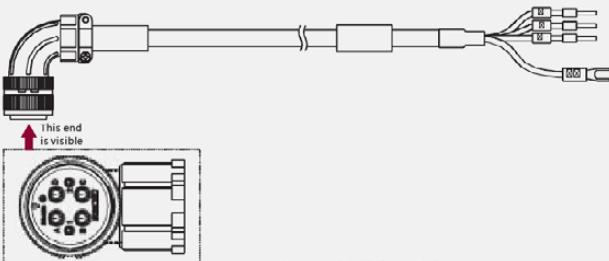


EC3P-B9319-□□ (With brake)



EC3P-N8214-□ (No brake)

Motor side



Driver side

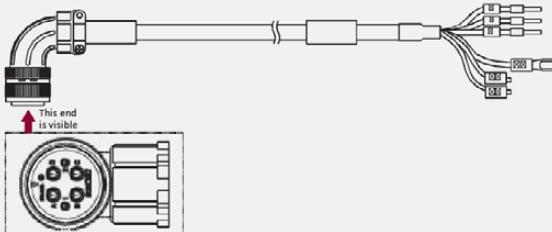
U, V, W, FG recommended cable diameter 2mm²

Needle no	Signal name	colour
A	U	brown
B	V	grey
C	W	black
D	FG	yellowgreen

Needle no	Signal name	colour
Crimping terminal	U	brown
Crimping terminal	V	grey
Crimping terminal	W	black
Crimping terminal	FG	yellowgreen
1	B1	white
2	B2	green

EC3P-B8214-□ (With brake)

Motor side



Driver side

U, V, W, PG recommended cable diameter 2mm²

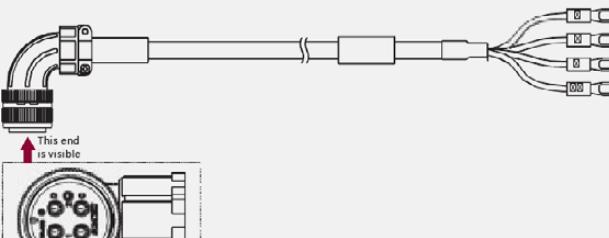
Needle no	Signal name	colour
A	U	brown
B	V	grey
C	W	black
D	FG	yellowgreen
1	B1	white
2	B2	green

Needle no	Signal name	colour
Crimping terminal	U	brown
Crimping terminal	V	grey
Crimping terminal	W	black
Crimping terminal	FG	yellowgreen
B1	B1	white
B2	B2	green

B1,B2 recommended cable diameter 0.5mm²

EC3P-N9212-□ (No brake)

Motor side



Driver side

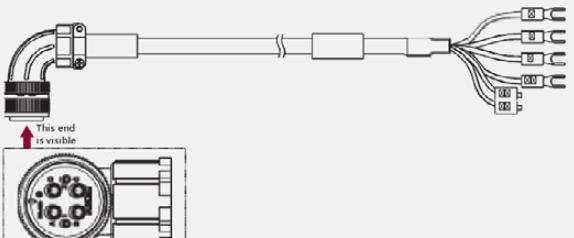
U, V, W, FG recommended cable diameter 4mm²

Needle no	Signal name	colour
A.	U	brown
B.	V	grey
C.	W	black
D	FG	yellowgreen

Needle no	Signal name	colour
Crimping terminal	U	brown
Crimping terminal	V	grey
Crimping terminal	W	black
Crimping terminal	FG	yellowgreen
1	B1	white
2	B2	green

EC3P-B9212-□ (With brake)

Motor side



Driver side

U, V, W, FG recommended cable diameter 4mm²

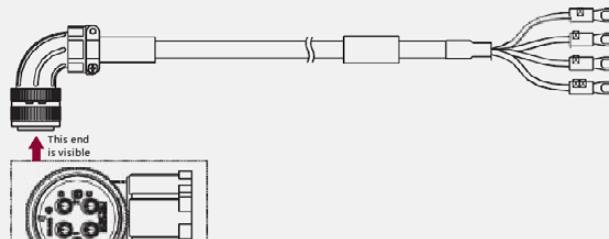
Needle no	Signal name	colour
A.	U	brown
B.	V	grey
C.	W	black
D	FG	yellowgreen

Needle no	Signal name	colour
Crimping terminal	U	brown
Crimping terminal	V	grey
Crimping terminal	W	black
Crimping terminal	FG	yellowgreen
B1	B1	white
B2	B2	green

B1,B2 recommended cable diameter 0.5mm²

EC3P-N9211-□ (No brake)

Motor side



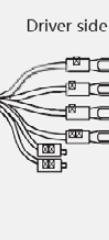
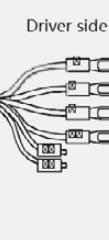
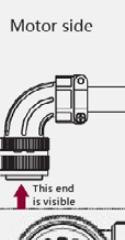
Driver side

U, V, W, FG recommended cable diameter 5mm²

Needle no	Signal name	colour
A.	U	brown
B.	V	grey
C.	W	black
D	FG	yellowgreen

Needle no	Signal name	colour
Crimping terminal	U	brown
Crimping terminal	V	grey
Crimping terminal	W	black
Crimping terminal	FG	yellowgreen
1	B1	white
2	B2	green

EC3P-B9211-□ (With brake)



U, V, W, FG recommended cable diameter 5mm²

Needle no	Signal name	colour
A.	U	brown
B.	V	grey
C.	W	black
D	FG	yellowgreen

Needle no	Signal name	colour
Crimping terminal	U	brown
Crimping terminal	V	grey
Crimping terminal	W	black
Crimping terminal	FG	yellowgreen
B1	B1	white
B2	B2	green

B1,B2 recommended cable diameter 0.5mm²