

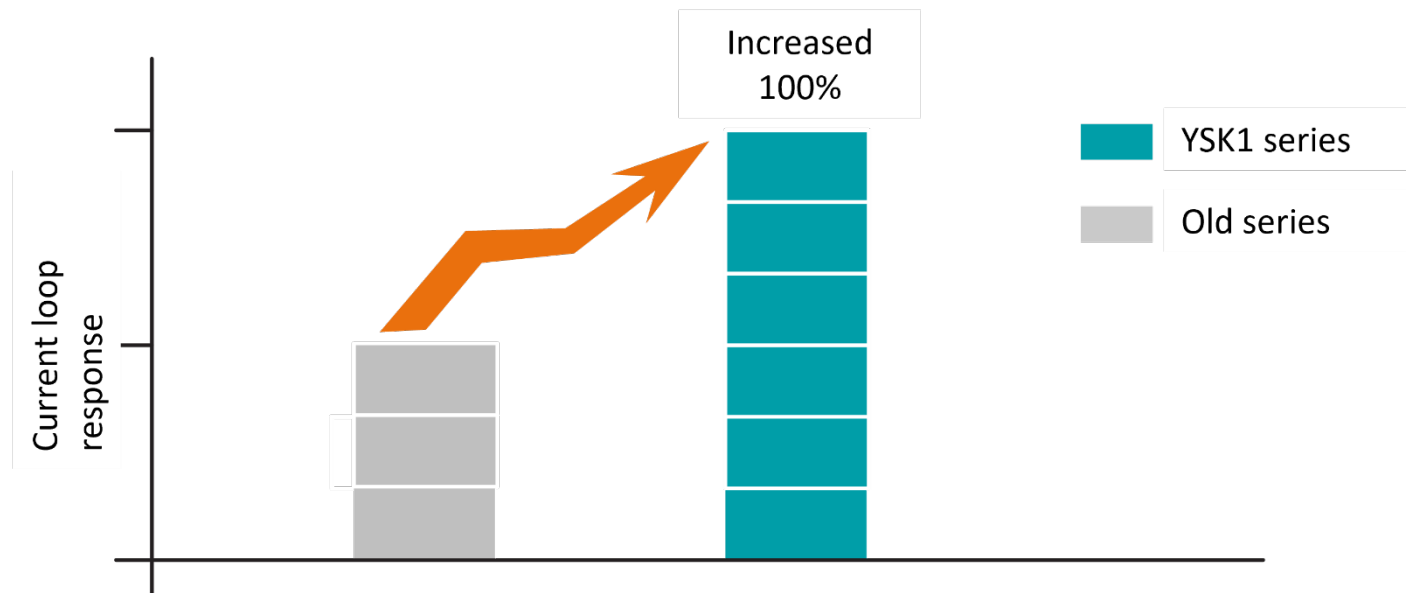
YSK1 SERIES AC SERVO SYSTEM

SELECTION GUIDE

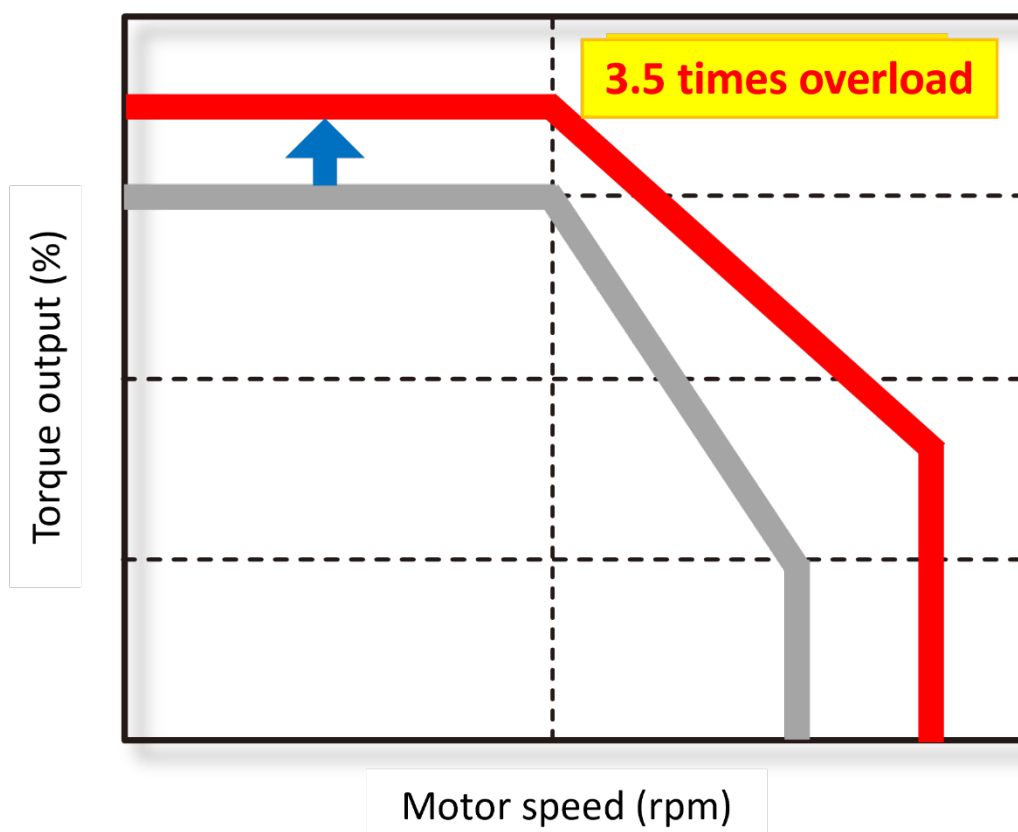


Features

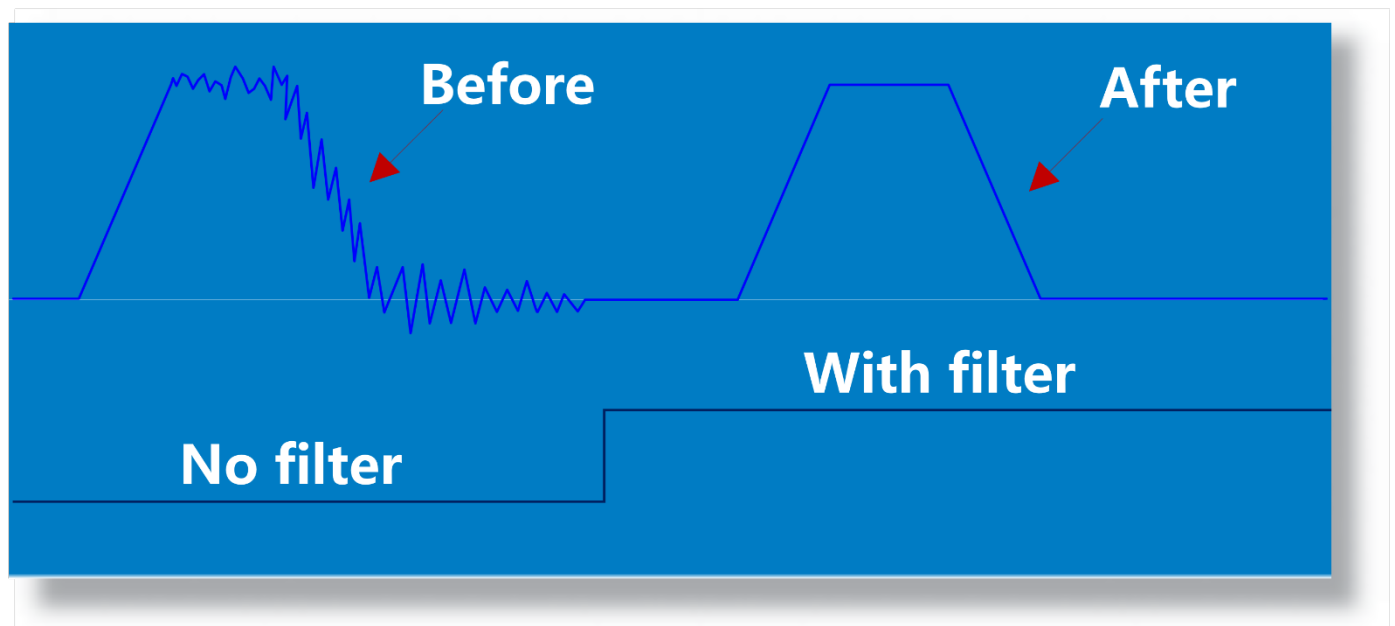
Faster response



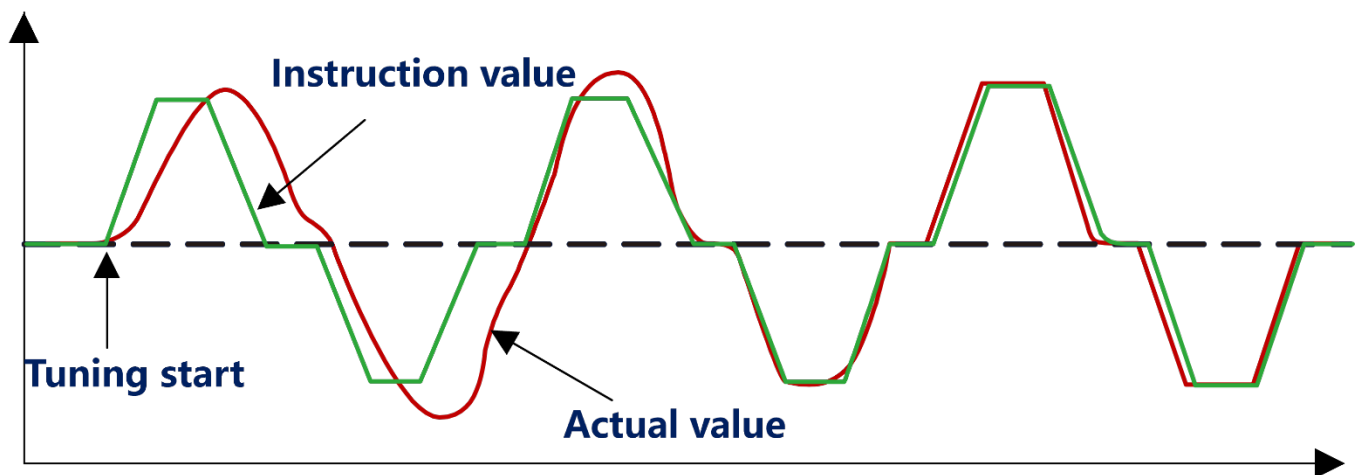
Higher torque output



Better vibration control



Smarter tuning



Model descriptions

• Servo Drive

YSK1	-	075	-	A
Product Series		Power	Type	Voltage level
YSK1 Series servo drive		040: 400W 075: 750W 100: 1KW 150: 1.5KW 200: 2KW	Blank: Pulse type E: EtherCAT type	A: AC220V B: AC380V

• Servo Drive

YSK1	-	M	H	075		N	
①		②	③	④	⑤	⑥	⑦

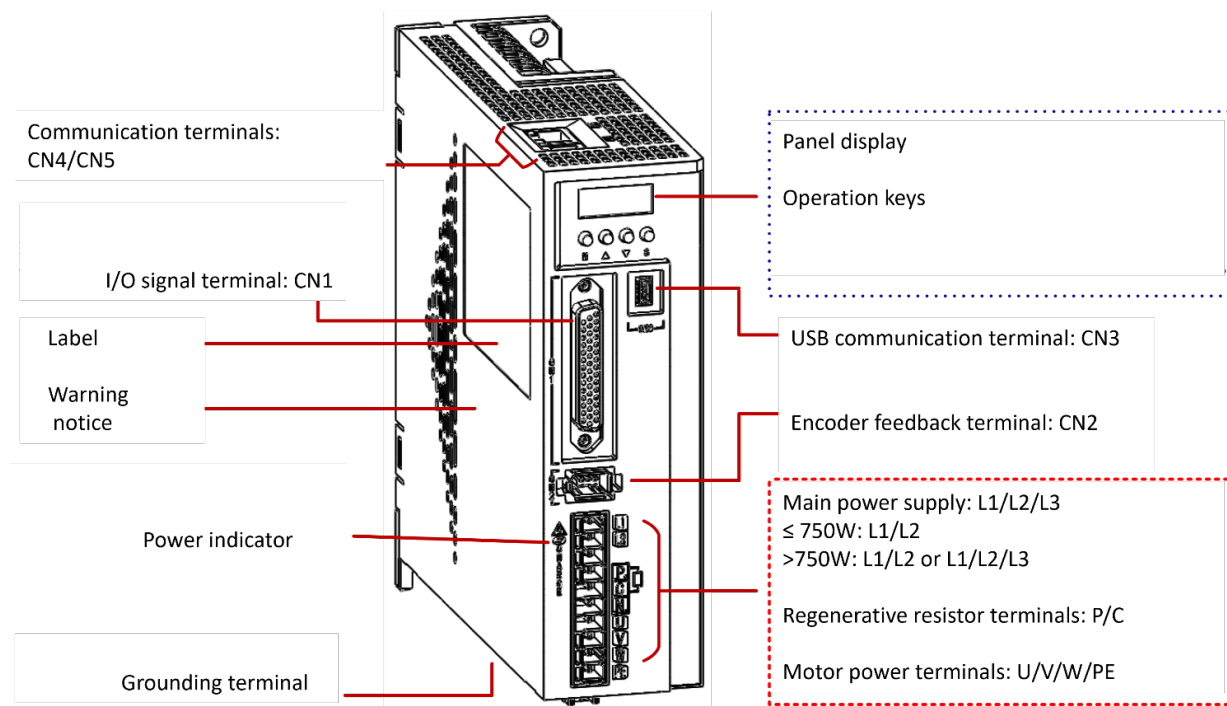
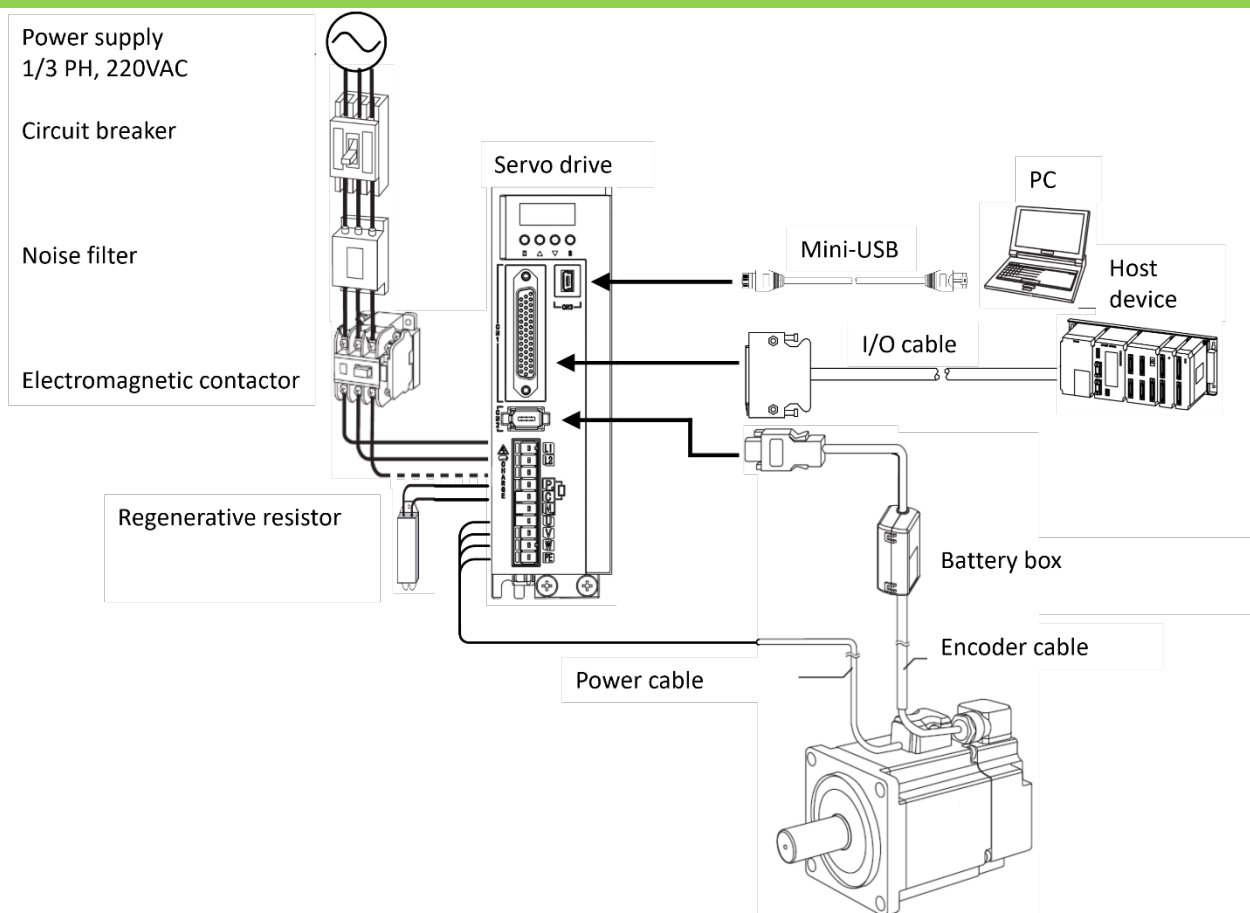
No.	Name	Remarks	
①	Product series	YSK1 series	
②	Product type	M: motor	
③	Inertia	H: High inertia M: Low inertia	G: Medium inertia
④	Rated power	040: 400W 085: 850W 150: 1.5KW 180: 1.8KW	075: 750W 100: 1KW 130: 1.3KW 200: 2KW
⑤	Rated voltage	Blank: AC220V	T: AC380V
⑥	Brake/Oil seal	N: With oil seal B: With brake and oil seal	
⑦	Encoder	Blank: 17-bit incremental, magnetic 2: 23-bit, optical encoder	A: 17-bit absolute, magnetic 3: 23-bit multi-turn optical encoder

• Matching table

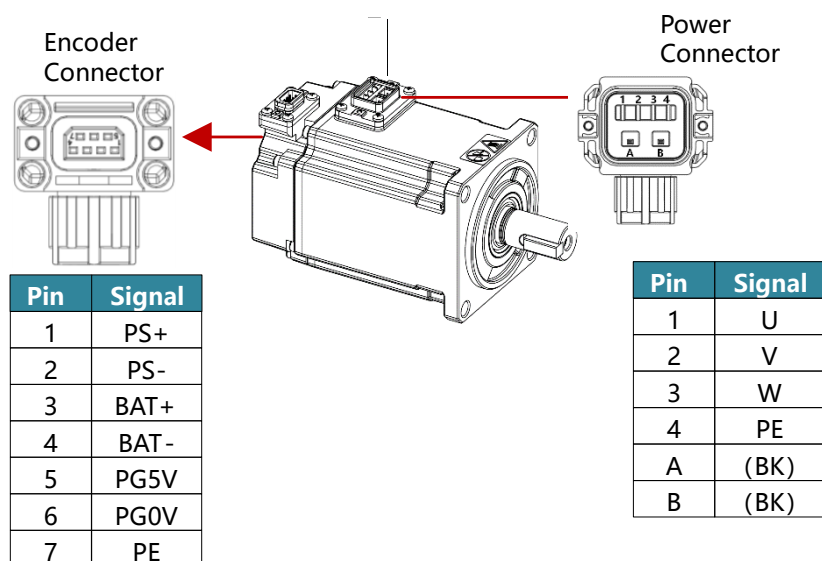
Voltage	Power	Drive	Motor	Power cable	Encoder cable
1PH AC220V	400W	YSK1-040A	YSK1-MH040	YSK1-PWR-075A-□M	YSK1-ENC-075A-□M
	750W	YSK1-075A	YSK1-MH075	YSK1-PWB-075A-□M	YSK1-ENC-ABS-075A-□M
1/3 PH AC220V	1KW	YSK1-100A	YSK1-MH100		
	1KW	YSK1-100A	YSK1-MM100	YSK1-PWR-100A-□M	YSK1-ENC-100A-□M
	850W	YSK1-100A	YSK1-MG085	YSK1-PWB-100A-□M	YSK1-ENC-ABS-100A-□M
	1.5KW	YSK1-150A	YSK1-MM150	YSK1-PWR-200A-□M	
	1.3KW	YSK1-150A	YSK1-MG130	YSK1-PWB-200A-□M	
	2KW	YSK1-200A	YSK1-MM200	YSK1-PWR-300A-□M	
	1.8KW	YSK1-200A	YSK1-MG180	YSK1-PWB-300A-□M	

Connectors and interface

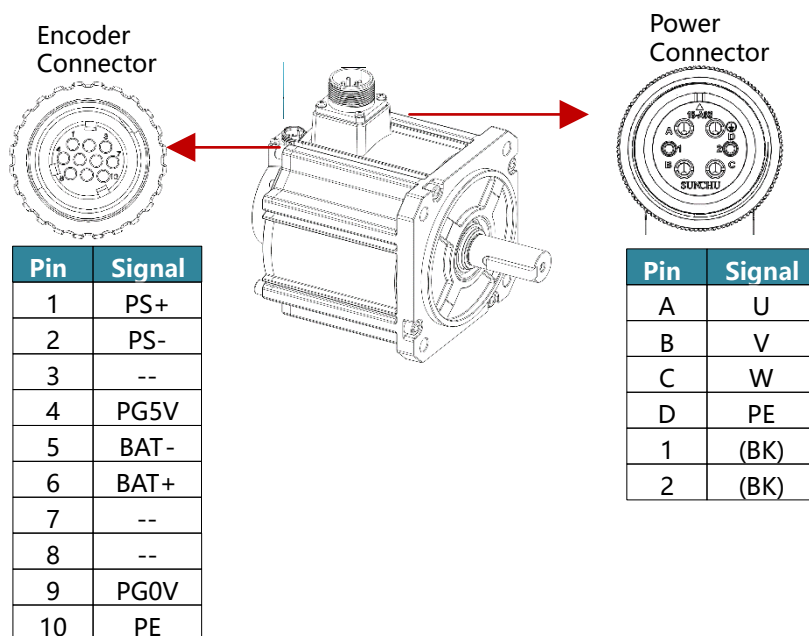
System configurations



• 60/80 mm flange motor connectors

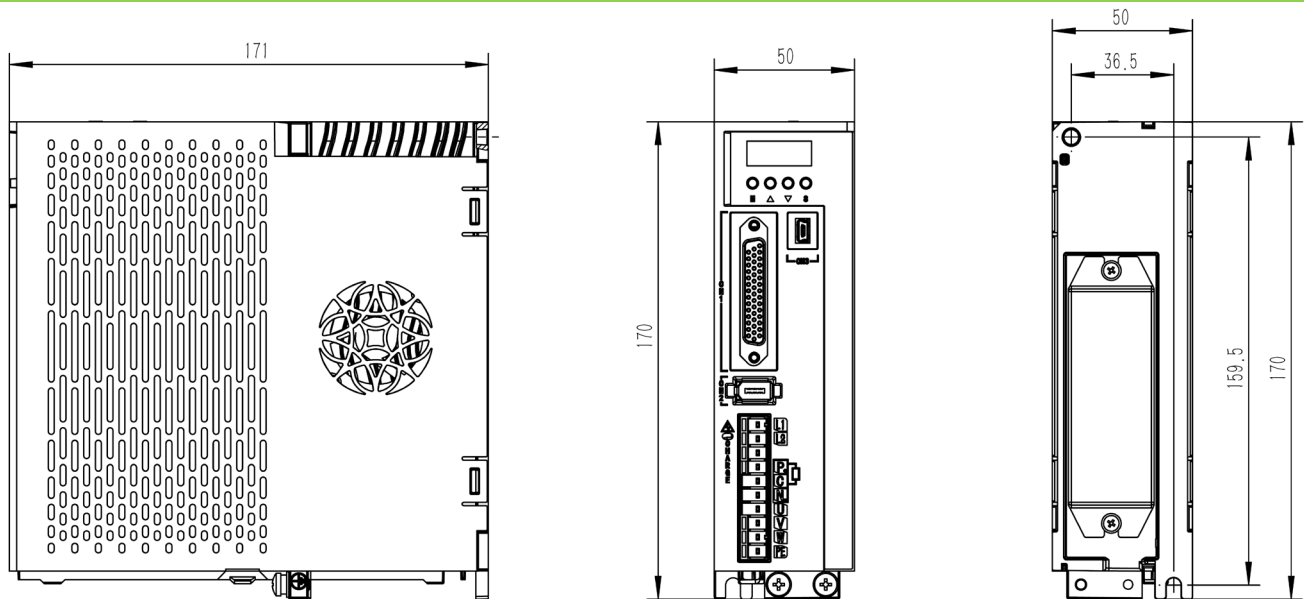


• 130 mm flange motor connectors

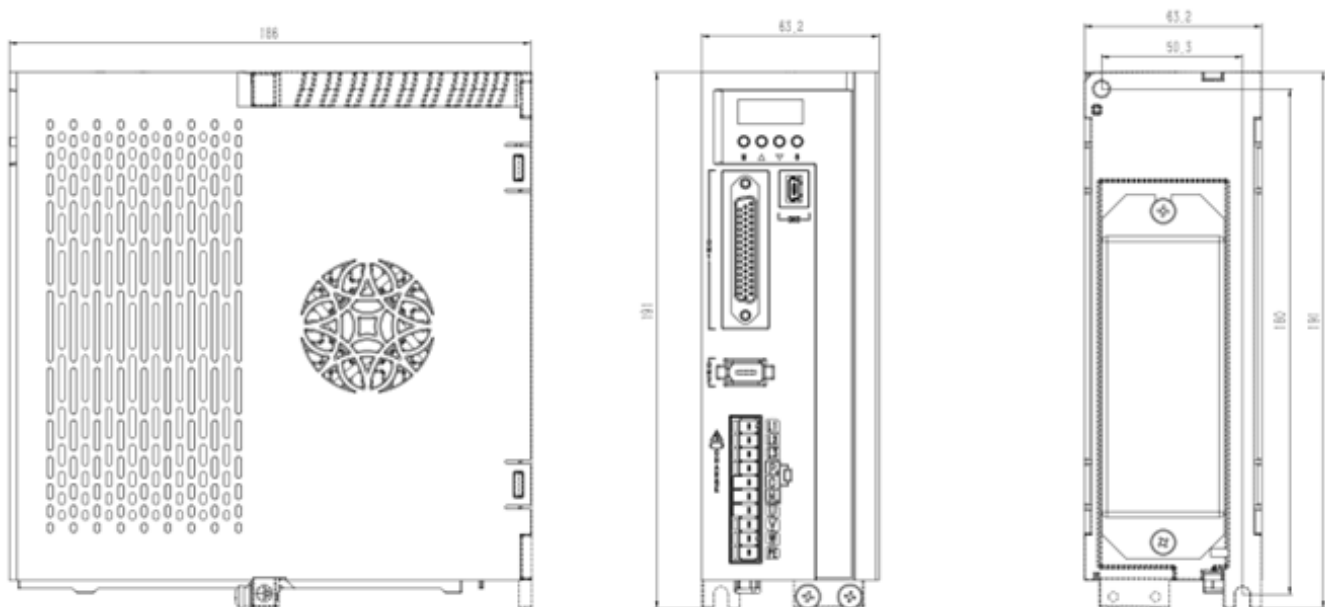


Product Dimensions

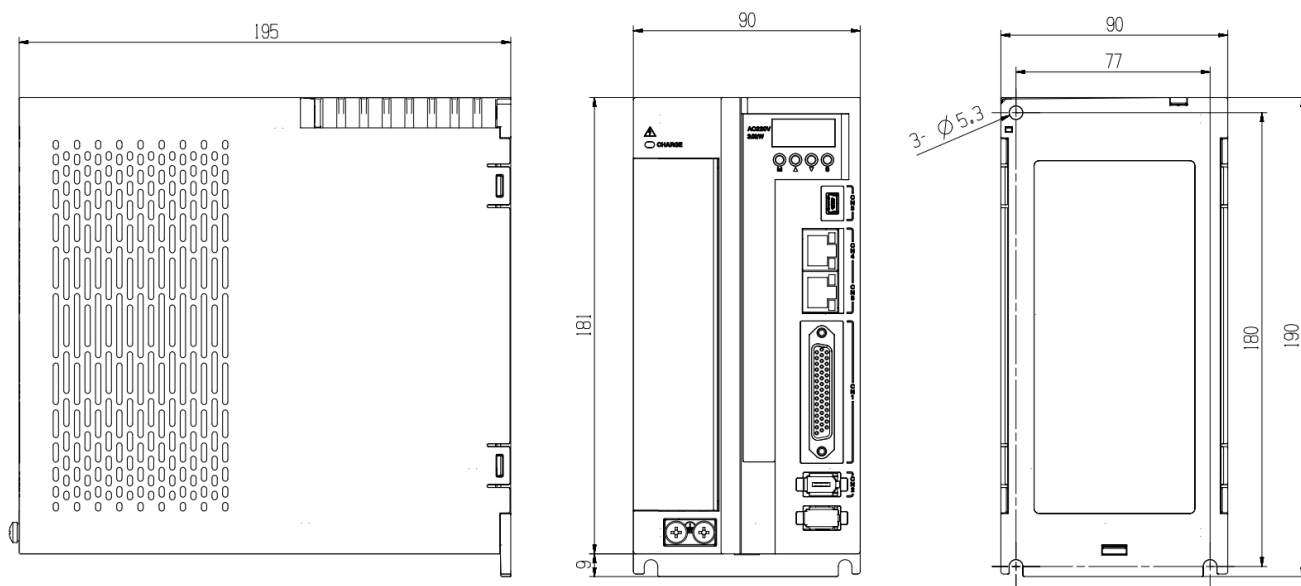
Drive Type A chassis: 400W/750W



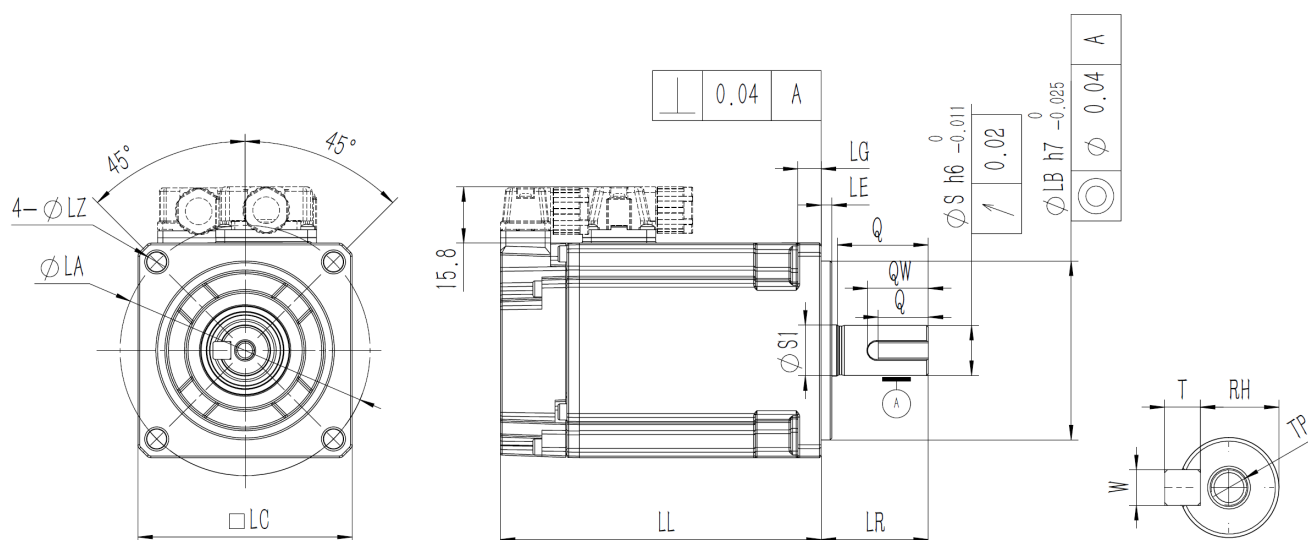
Drive Type B chassis: 1KW/1.5KW



Drive Type C chassis: 2KW/3KW



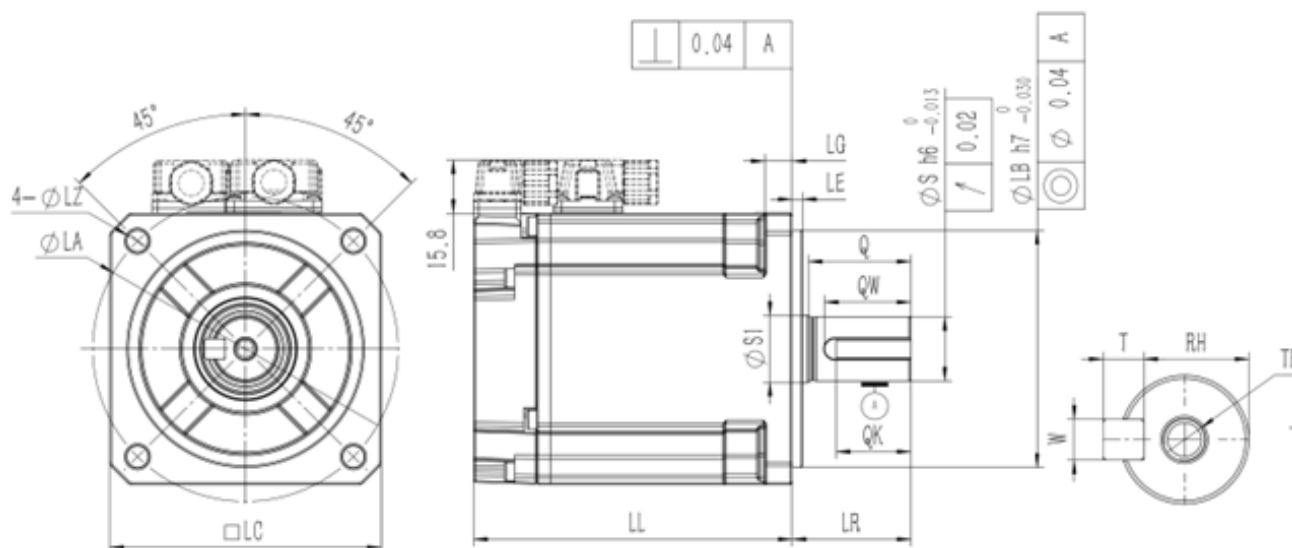
Motor 60mm flange



Model	Motor body		Flange						Shaft								
	LL	LR	LA	LB	LC	LE	LG	LZ	S	SI	Q	QK	QW	W	Y	TH	TP
MH040	89.8(122.4)	30	70	50	60	3	6.5	5.5	14	14.2	25.5	14	17	5	5	11	M5D12

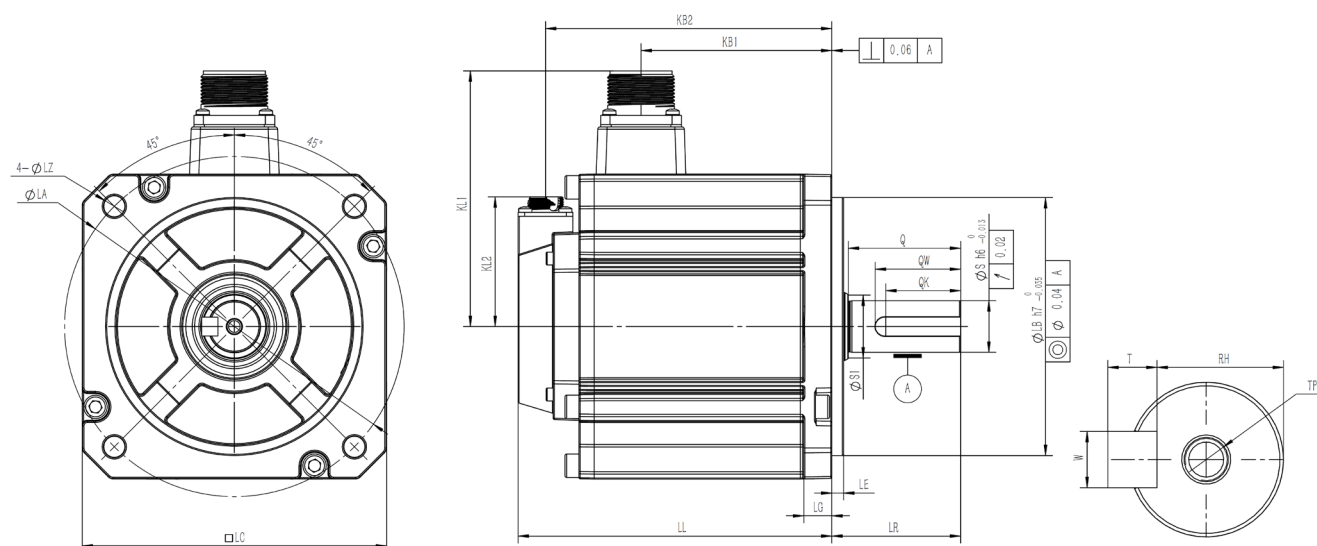
**LL in brackets: with brake.

Motor 80mm flange



Model	Motor body		Flange						Shaft								
	LL	LR	LA	LB	LC	LE	LG	LZ	S	SI	Q	QK	QW	W	Y	TH	TP
MH075	93.9(131)	35	90	70	80	3	8	6.4	19	19.7	30.2	22	25.5	6	6	15.5	M6D12
MH100	102.3(139.4)	35	90	70	80	3	8	6.4	19	19.7	30.2	22	25.5	6	6	15.5	M6D12

Motor 130mm flange



Model	Motor body						Flange						Shaft									
	LL	LR	KB1	KB2	KL1	KL2	LA	LB	LC	LE	LG	LZ	S	SI	Q	QK	QW	W	T	RH	TP	
YSK1-																						
MM100	119(148)	55	66.5	107.3	109	55.3(99.3)	145	110	130	5	12	9	22	26.8	48	32	36.5	8	7	18	M6D12	
MG085	119(148)	55	66.5	107.3	109	55.3(99.3)	145	110	130	5	12	9	22	26.8	48	32	36.5	8	7	18	M6D12	
MM150	134(163)	55	81.5	122.3	109	55.3(99.3)	145	110	130	5	12	9	22	26.8	48	32	36.5	8	7	18	M6D12	
MG130	134(163)	55	81.5	122.3	109	55.3(99.3)	145	110	130	5	12	9	22	26.8	48	32	36.5	8	7	18	M6D12	
MM200	149(178)	55	95.6	137.3	109	55.3(99.3)	145	110	130	5	12	9	22	26.8	48	32	36.5	8	7	18	M6D12	
MG180	149(178)	55	95.6	137.3	109	55.3(99.3)	145	110	130	5	12	9	22	26.8	48	32	36.5	8	7	18	M6D12	

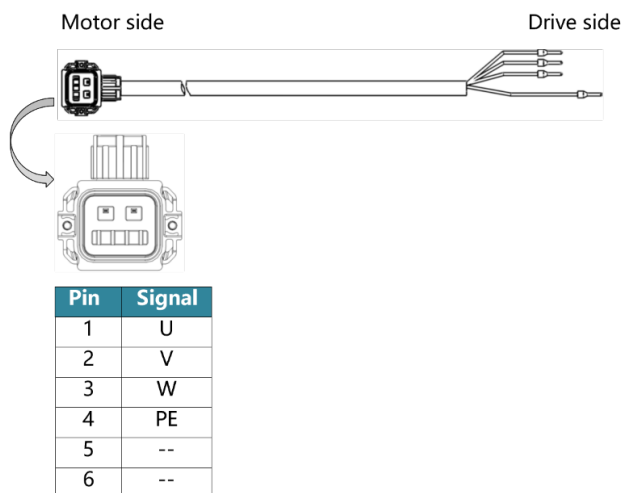
Ratings and specifications

Servo drive YSK1-			040A	075A	100A	150A	200A
Continuous current [Arms]			2.8	4.8	6.6	8.5	12.0
Chassis			A type		B type		
Input power			1PH AC200V ~ 230V, 50Hz/60Hz (A type) 1/3PH AC200V ~ 230V, 50Hz/60Hz (B/C type)				
Control method			SVPWM control				
Feedback			▶ 17-bit magnetic encoder ▶ 23-bit optical encoder				
Use conditions	Work	Temperature	-5°C ~ 40°C				
		Humidity	5%~95%RH (No condensation, no freezing)				
	Storage	Temperature	-20°C ~ 85°C				
		Humidity	5%~95%RH (No condensation, no freezing)				
	Protection class		IP20				
	Altitude		Below 1000m				
	Vibration resistant		4.9m/s ²				
	Shock proof		19.7m/s ²				
	Power Systems		TN system				
Installation structure			Base mount				
Performance	Speed control range		1: 5000				
	Speed volatility	±0.01% or less of rated speed (load fluctuation: 0% to 100%)					
		0.1% or less of rated speed (voltage fluctuation: ±10%)					
		±0.1% or less of rated speed					
Soft start setting		0 ~ 10s (Acceleration and deceleration can be set separately)					
Input/output signals	Input signals	Operating voltage range: 24 VDC±20%					
		Number of input channels: 6					
		Signals: S-ON, C-SEL, P-OT, N-OT, CLR, ALM-RST etc.					
	Output signals	Operating voltage range: 5 VDC ~ 30 VDC					
		Number of output channels: 4					
		Signals: ALM, BK, CZ, COIN, etc.					
Communication	RS485		RS485 Communication Based on MODBUS				
	USB		Connect to PC for communication with PC software software				
	CAN (optional)		CANopen communication				
Display			5-digit digital tube				
Indicator light			CHARGE				
Panel operator			4 buttons				
Regenerative braking			External braking resistor				
Protective function			Overcurrent, overvoltage, undervoltage, overload, abnormal regeneration, overspeed, etc.				
Accessibility			JOG operation, factory reset, alarm record, load inertia identification, automatic tuning, etc.				

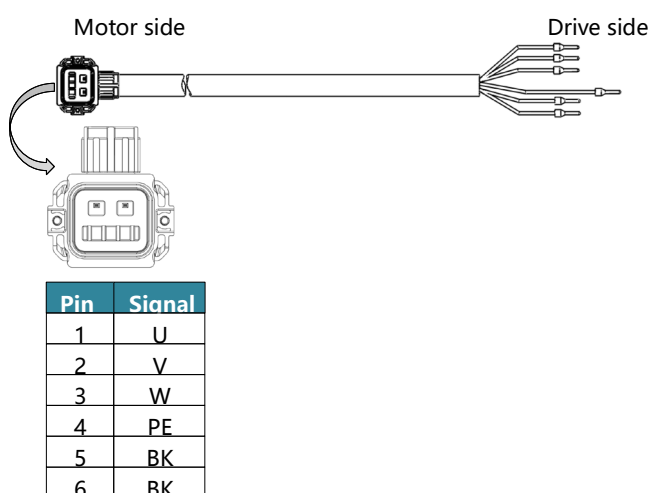


Power cables

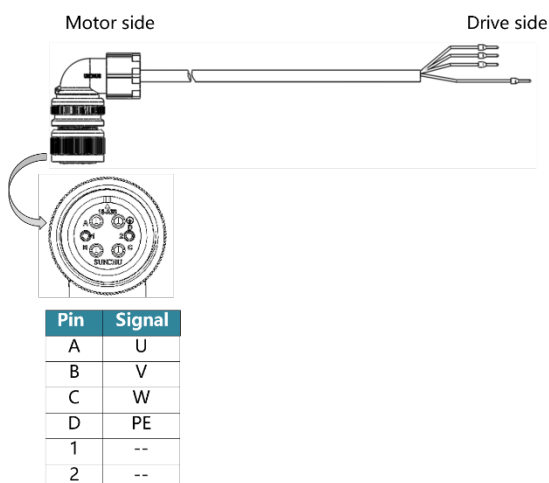
- YSK1-PWR-075A-□M (no brake)



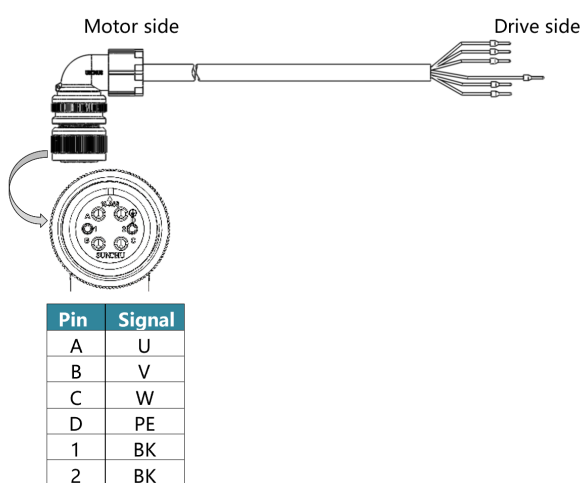
- YSK1-PWB-075A-□M (with brake)



- YSK1-PWR-100A/200A/300A-□M (no brake)

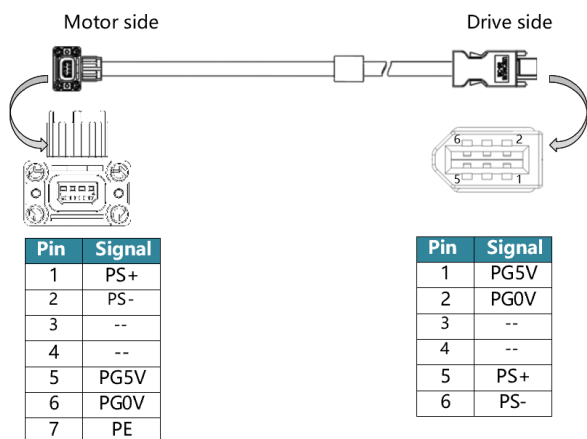


- YSK1-PWB-100A/200A/300A-□M (with brake)

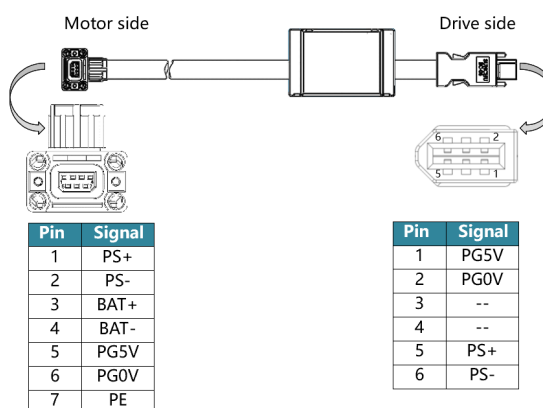


Encoder cables

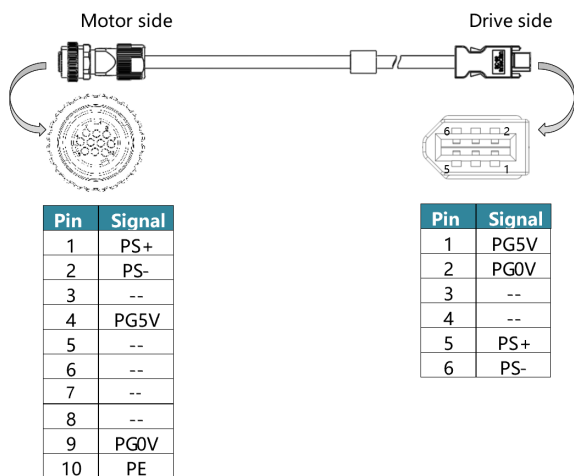
- YSK1-ENC-075A-□M (no battery)



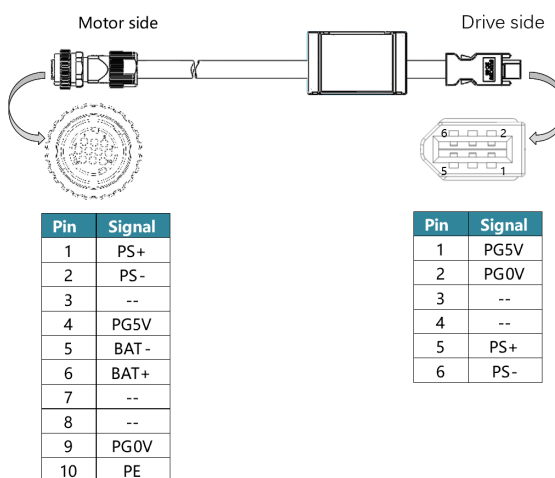
- YSK1-ENC-ABS-075A-□M (with battery)



- YSK1-ENC-100A-□M (no battery)



- YSK1-ENC-ABS-100A-□M (with battery)



Standard Wiring Diagram

