

IN PURSUIT OF GROWTH & EXCELLENCE



EtherCAT<sup>®</sup>  
Conformance tested

Ultra-evolutional

# SDP Series AC SERVO SYSTEM

The Best Drive for Smart Machinery



[www.seecfa.com](http://www.seecfa.com)

# SDP Series

Ultra-evolutional Design

Advanced Utility for  
Industrial Equipment



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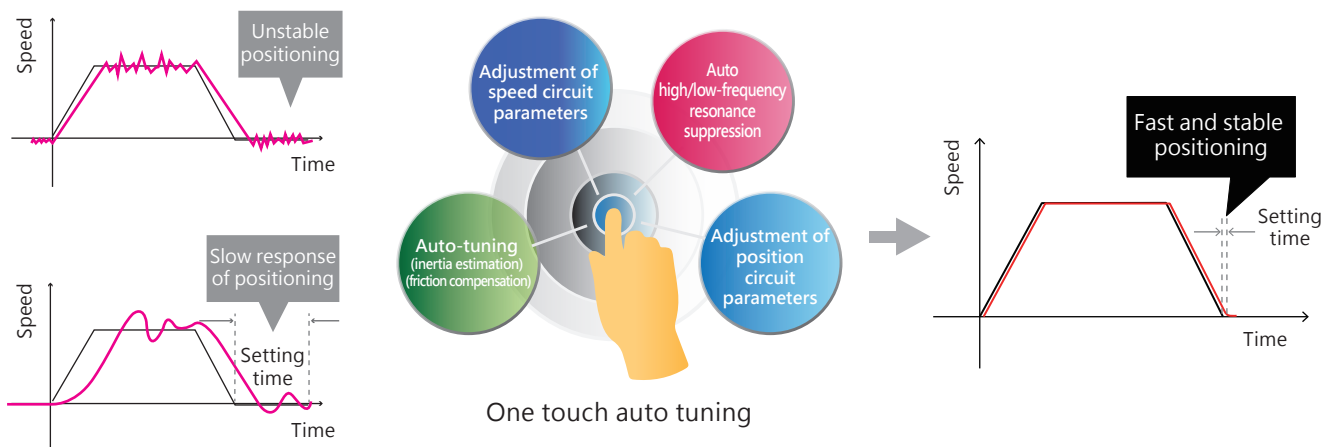
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# Features

## One touch tuning



"Simple tuning" reduces the adjustment time effectively and maximizes the performance of the driver.



## Faster response

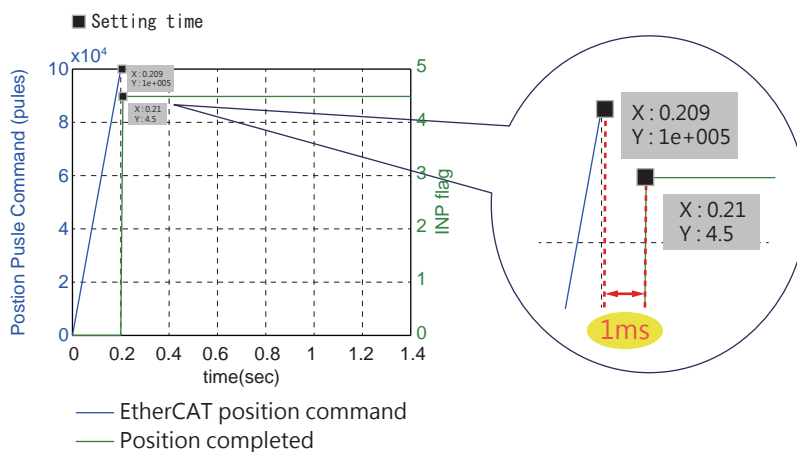
Speed response frequency

2.5k Hz



400 Hz

With outstanding speed response, it can greatly shorten the setting time to 1ms, featured by high speed, high response and accurate positioning.



## High-resolution



High-resolution Encoder

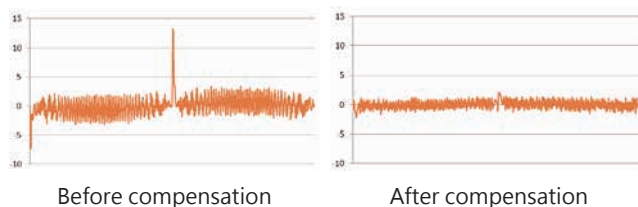
24 Bit

16,777,216 pulse/rev

It is equipped with Japanese high-level absolute position encoder. The resolution is up to 16777216 pulse/rev. This can make the position control more accurate and improve the stableness at low speed.

## Auto friction compensation

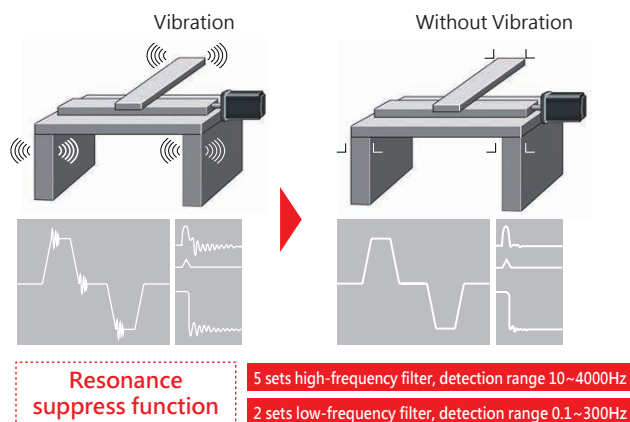
It can effectively reduce the position deviation when the running motor changes direction, and also increase the stability when running at low speed.



# Features

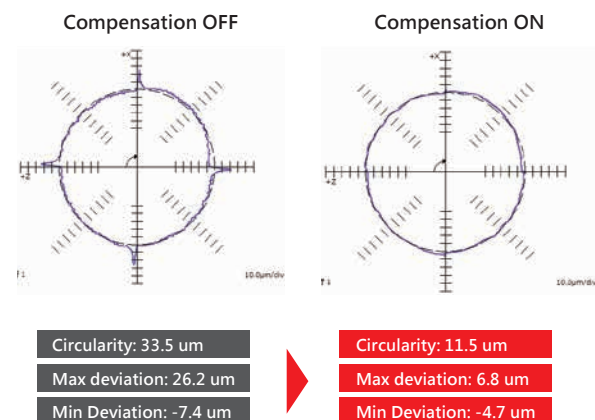
## ■ Suppress resonance frequency and vibration —

To inertia system of mechanical, both two low-frequency vibrations could be suppressed at the same time by vibration control algorithms. This can suppress the residual vibration from the end of arm to main body. Automatic high/low-frequency vibration suppression function could be turned on directly in motion mode, which can search for the vibration frequency and turn on the filter, so as to suppress the mechanic resonance. This can further shorten the setting time and improve equipment performance.



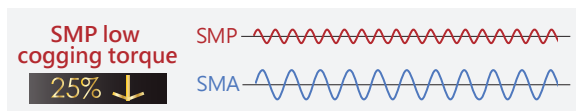
## ■ Friction compensation and backlash compensation —

It improves the commutation error effectively and increases the circularity.

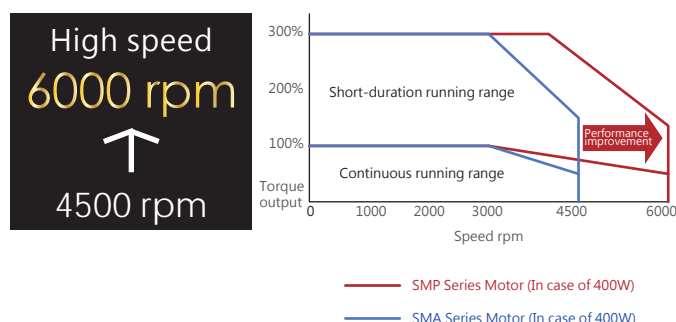


## ■ Motor diversification and performance enhancement

① The motor cogging torque lower than 1.5% increases the smoothness of running at fixed speed and processing at low speed, which achieves the reduction of 25% than SMA in the past.



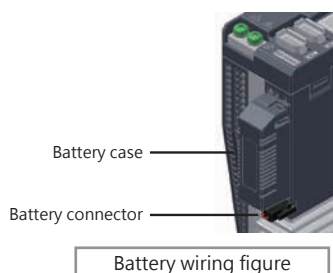
② Speed increasing and better torque output help to enhance the performance (productivity).



## ■ Absolute Position System Optional

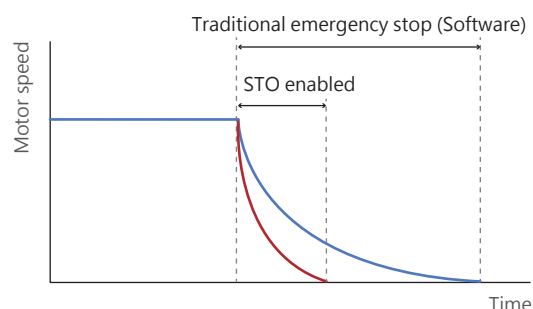


Use optional battery to memory absolute position when power-off. (Absolute motor and battery are optional)



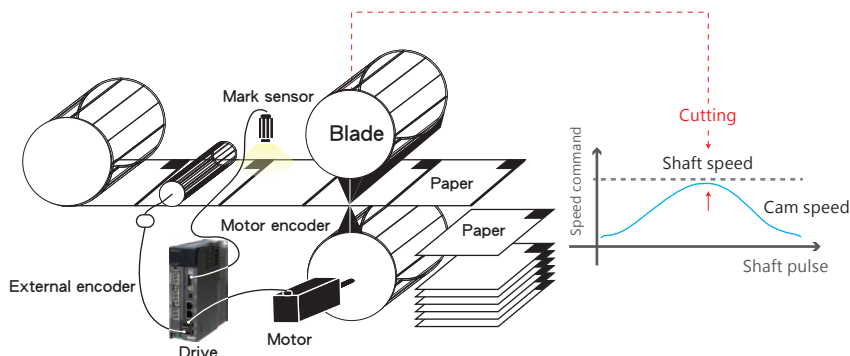
## ■ Safe Torque Off (STO)

STO function is supported to enhance the integrity of equipment and factory safety.



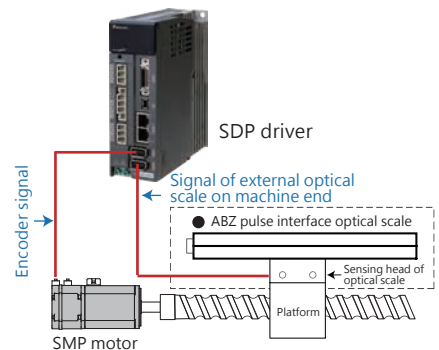
## Electronics cam

The cam profile can be planned as high as 720 points, which can be applied in cam control of printing machine/labeling machine/packaging machine/fly shearing/cutting/and etc.



## Full-closed Loop Control

It can be connected with external optical scale or encoder, and control the position accurately through signal of terminal position feedback, so as to reduce the impact of backlash and flexibility of the transmission mechanism, ensuring the positioning accuracy on machine end.



## ETG Certification

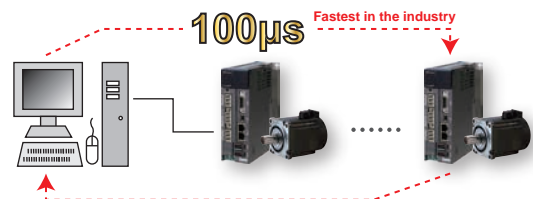
With international certification, it guarantees the performance and functionality.

**EtherCAT**  
Conformance tested

Unique among  
Taiwan's manufacturers

## Shortest communication cycle time in the industry

It can support minimum 100us cycle time, achieving High-speed and High precision in motion control.



## Model Definition

### Servo Motors Model Definition

SMP-		L		010		30		S		A		A			
Series		Inertia		Motor capacity				Motor Rated Rotation		Encoder resolution		With brake and Oil Seal		Key and Cable	
	L	Low inertia	005	50W	100	1KW	20	2000	S	Incremental type	A	No brake/ No oil seal	A	No key/Cable leading load side	
	M	Medium inertia	010	100W	150	1.5KW	30	3000	M	Absolute position type	B	With brake/ No oil seal	B	With key/ Cable leading load side	
			020	200W	200	2KW					C	No brake/ Oil seal	C	No key/Cable leading opposite load side (Optional)	
			040	400W	300	3KW					D	With brake/ Oil seal	D	With key/Cable leading opposite load side (Optional)	
			075	750W	500	5KW									
					700	7KW									

### Servo Drives Model Definition

SDP -		010			E2	C
Series	Motor Capacity			Input Voltage	Model code	
	010	100W	100	1KW	1-phase or 3-phase · AC200~240V	C Closed-loop type
	020	200W	150	1.5KW		
	040	400W	200	2KW		
	075	750W	300	3KW		
			500	5KW		
			700	7KW		

# Servo Motor Specifications

## Small Capacity Low Inertia / Medium Capacity Low Inertia

Servo motor model SMP - L□□□		Unit	005	010	020	040	075	100	150	200	300
Corresponding drive model SDP - □□□E2C			010		020	040	075	100	150	200	300
Rated output capacity		W	50	100	200	400	750	1000	1500	2000	3000
Rated torque <small>(Note 1)</small>		Nm	0.16	0.32	0.64	1.27	2.4	4.78	7.16	9.55	14.3
Maximum torque		Nm	0.48	0.96	1.92	3.81	7.2	14.4	21.6	28.5	43.0
Rated speed		rpm	3000					2000			
Maximum speed		rpm	6000					3500			
Rate current		A	0.43	0.85	1.7	2.8	5.8	5.8	8.5	11	16
Maximum current		A	2.7	2.7	5.2	9.0	18.5	17.4	25.2	33	48
Rotary inertia <i>J</i> (x10 <sup>-4</sup> ) <small>(Note 2)</small>		kg·m <sup>2</sup>	0.0295 (0.0299)	0.0518 (0.0523)	0.161 (0.178)	0.277 (0.294)	1.07 (1.11)	6.1 (8.0)	8.8 (10.7)	11.5 (13.5)	16.7 (18.7)
Power rate at continuous rated		kW/s	8.6	19.6	25.2	58.5	53.3	37.6	58.3	79.3	122.9
Insulation class		--	CE(B)					CE(F)			
Insulation resistance		--	100MΩ @ DC 500V								
Insulation voltage		--	60sec @ AC 1500V								
Encoder resolution		--	Resolution 24bit (16,777,216 Pulse)					Resolution 23bit (8,388,608 Pulse)			
Structure <small>(Note 3)</small>		--	Totally enclosed, natural cooling (IP rating: IP65) <small>(Note 4)</small>								
Vibration rank		--	V-15								
Environment	Storage temperature	--	0°C ~ 40°C(non freezing) / Storage:-15°C ~ 70°C(non freezing)								
	Storage Humidity	--	Below 80%RH (non condensing) / Storage : Below 90%RH (non condensing)								
	Altitude	--	Between sea level and 1000 m								
	Ambience	--	Indoor (avoid direct sunlight); no corrosive gas, no flammable gas, no oil mist or dust								
	Vibration Resistance	--	5G					2.5G			
Permissible load for the shaft <small>(Note 4)</small>	Fd	mm	20		25		35	50			
	Radial load Fr	N	68.6		245		392	490			
	Axial load Fa	N	39.2		98		147	196			
Electromagnetic brake specification <small>(Note 5)</small>	Input	V	DC 24V ± 10%								
	Brake	Nm	0.3		1.3		2.4	8.5			15
	Power consumptio	W	6.3		7.9		8.6	19.3			19.3
	Current consumptio	A	0.24		0.32		0.35	0.8			0.8
	Resistor@20°C	Ω	92.4		75.4		67	29.8			29.8
	Open time	ms	20		30		50	40			40
	Close time	ms	20		20		20	25			25
Weight <small>(Note 6)</small>		kg	0.33 (0.55)	0.45 (0.67)	0.85 (1.23)	1.23 (1.59)	2.24 (2.87)	5.2 (7.0)	6.5 (8.3)	7.7 (9.5)	10.2 (12.0)

**Note 1 :** For the motion mechanism of lifting axis or reciprocating load, it is recommended keeping the load rate below 75%.

**Note 2 :** ( ) is the rotary inertia and weight for the models with electromagnetic brake.

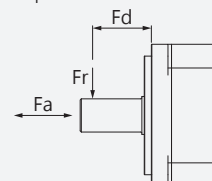
**Note3 :** IP rating 65 is for the motor body only, not including the output axis and connector.

**Note 4 :** The permissible load for the shaft is as shown in the figure on the right.

**Note 5 :** The brake is used to stop or fix the machine, which can't be used for braking the motion mechanism.

**Note 6 :** ( ) is the weight of the electromagnetic brake.

Diagram of permissible load for the shaft



## Medium Capacity Medium Inertia

Servo motor model SMP - M□□□20	Unit	100	150	200	300	500	700
Corresponding drive model SDP - □□□E2C		100	150	200	300	500	700
Rated output capacity	W	1000	1500	2000	3000	5000	7000
Rated torque <sup>(Note 1)</sup>	Nm	4.78	7.16	9.55	14.3	23.9	33.4
Maximum torque	Nm	14.4	21.6	28.5	43.0	71.7	100.2
Rated speed	rpm	2000					
Maximum speed	rpm	3500				2000	
Rate current	A	5.8	8.5	11	16	22	30
Maximum current	A	17.4	25.2	34.7	48	66	90
Rotary inertia	kg·m <sup>2</sup>	10.3 (12.2)	15.0 (17.0)	32.1 (42.4)	61.2 (71.6)	84.6 (95)	121.6 (132)
Power rate at continuous rated	kW/s	22.1	34.2	28.4	33.5	68	92
Insulation class	--	CE(F)					
Insulation resistance	--	100MΩ @DC 500V					
Insulation voltage	--	60sec @ AC 1500V					
Encoder resolution	--	Resolution 23bit (8,388,608 Pulse)					
Structure <sup>(Note 3)</sup>	--	Totally enclosed, natural cooling (IP rating: IP65) <sup>(Note 4)</sup>					
Vibration rank	--	V-15					
Environment	Storage temperature	--	0°C ~ 40°C(non freezing) / Storage:-15°C ~ 70°C(non freezing)				
	Storage Humidity	--	Below 80%RH (non condensing) / Storage : Below 90%RH (non condensing)				
	Altitude	--	Between sea level and 1000 m				
	Ambience	--	Indoor (avoid direct sunlight); no corrosive gas, no flammable gas, no oil mist or dust				
	Vibration Resistance	--	2.5G				
Permissible load for the shaft <sup>(Note 4)</sup>	Fd	mm	50	70	78		
	Radial load Fr	N	490	980			
	Axial load Fa	N	196	392			
Electromagnetic brake specification <sup>(Note 5)</sup>	Input	V	DC 24V ± 10%				
	Brake	Nm	8.5	45			
	Power consumptio	W	19.3	34			
	Current consumptio	A	0.8	1.41			
	Resistor@20°C	Ω	29.8	17			
	Open time	ms	40	110			
	Close time	ms	25	30			
Weight <sup>(Note 6)</sup>	kg	5.6 (7.4)	6.9 (8.7)	10.5 (15.8)	15.3 (20.6)	19.1 (24.4)	24.5 (29.8)

**Note 1 :** For the motion mechanism of lifting axis or reciprocating load, it is recommended keeping the load rate below 75%.

**Note 2 :** ( ) is the rotary inertia and weight for the models with electromagnetic brake.

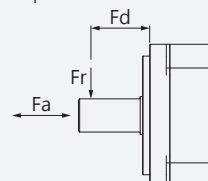
**Note 3 :** IP rating 65 is for the motor body only, not including the output axis and connector.

**Note 4 :** The permissible load for the shaft is as shown in the figure on the right.

**Note 5 :** The brake is used to stop or fix the machine, which can't be used for braking the motion mechanism.

**Note 6 :** ( ) is the weight of the electromagnetic brake.

Diagram of permissible load for the shaft





# Servo Drive Specifications

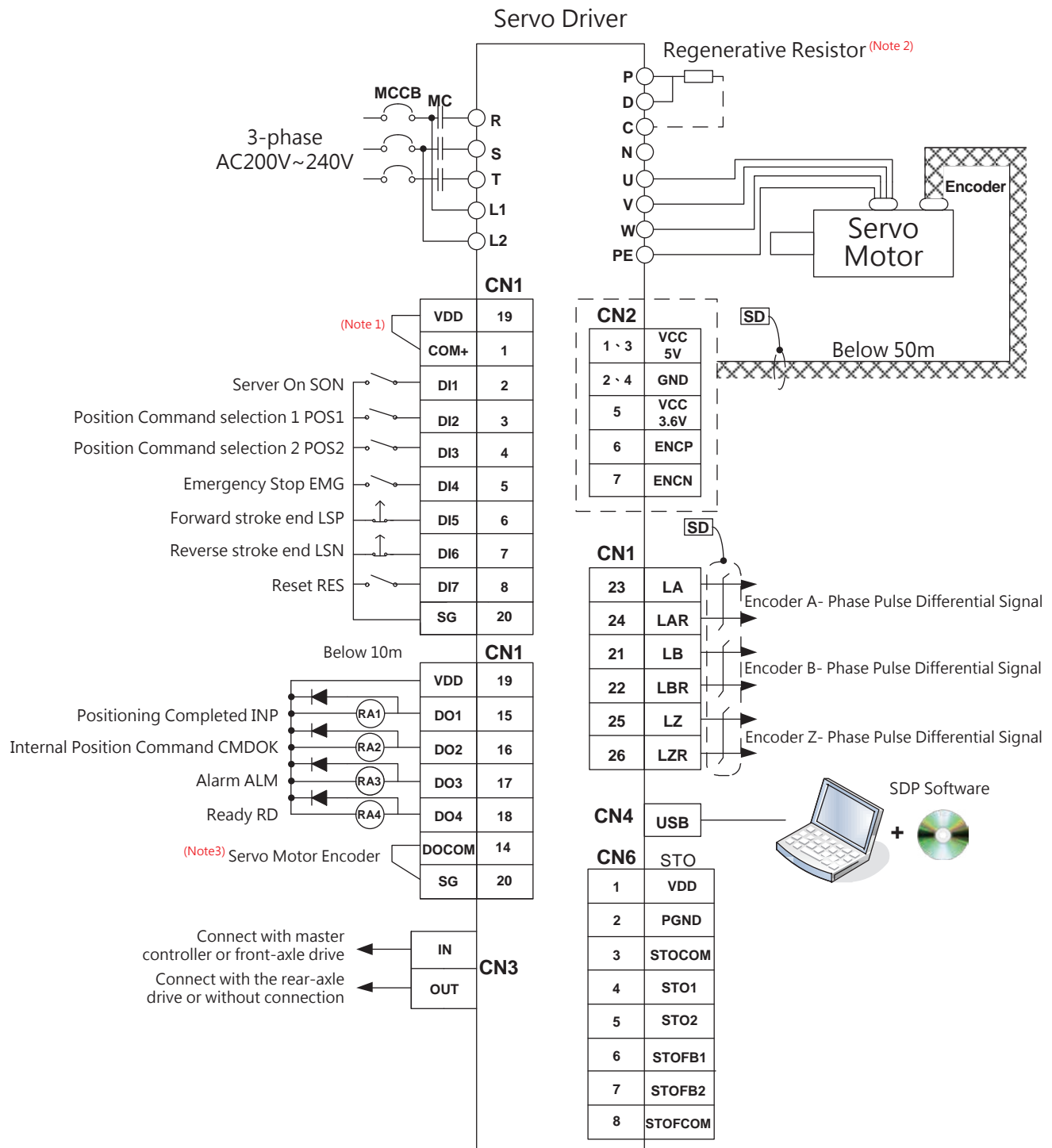
Servo drive model SDP-□□□E2C			010	020	040	075	100	150	200	300	500	700	
Servo motor model SMP-□□□□			L005	L020	L040	L075	L100	L150	L200	L300	M500	M700	
			L010				M100	M150	M200	M300			
Servo motor power			50W	200W	400W	750W	1.0KW	1.5KW	2KW	3KW	5KW	7KW	
			100W										
Main Circuit Power	Input	Voltage 50/60Hz	1-phase or 3-phase AC 200~240V							3-phase AC 200~240V			
		Permissible Voltage Fluctuation 50/60Hz	1-phase or 3-phase AC 170~264V							3-phase AC 170~264V			
		Permissible Frequency Fluctuation	±5%										
	Output	Voltage	AC 0~240V										
		Current	1.0A	1.8A	3.2A	5.4A	6.4A	9.4A	12.1A	17.6A	21.2A	30.2A	
		Frequency	0~250Hz										
Control Circuit Power	Voltage 50/60Hz		1-phase AC 200~240V										
	Permissible Voltage Fluctuation 50/60Hz		1-phase AC 170~264V										
	Permissible Frequency Fluctuation		±5%										
	Power Consumption (W)		30										
Control Method			3-phase full wave rectify, IGBT-PWM controlled (SVPWM drive)										
Dynamic brake			Built-in (hardware)										
Protective Functions			Overcurrent, low voltage, overvoltage, overheat, overload protection (electronic heat accumulation), fan failure protection, encoder error protection, regenerative error, overspeed protection, error excessive protection, serial communication error, serial communication time out, motor match error, motor UVM disconnection, and control circuit error.										
Encoder Feedback			50W~750W: Incremental / Absolute 24bit / 1KW~3KW: Incremental / Absolute 23bit										
Communication Interface			EtherCAT、USB										
(CSP) Position Control Mode	Command Control		EtherCAT communication control										
	Command Smoothing		Low-pass filter / Linear / PS curve										
	Command Pulse Multiplying factor		Electronic gear A/B ratio A: 1~4194304, B: 1~4194304 (Limitation:1/50 < A/B < 64000)										
	Error Excessive		±3 rotations										
	Torque Limit		EtherCAT communication control										
	Feedforward Compensation		Internal parameter setup or EtherCAT communication control (0~200%)										
(CSV) Speed Control Mode	Speed Control Range		1:5000										
	Command Control		EtherCAT communication control										
	Command Smoothing		Low-pass filter / Linear acceleration and deceleration curve / S curve										
	Speed Fluctuation Rate		Load fluctuation 0~100%(maximum) ±0.01% power fluctuation ±10%(maximum)0.01%										
	Torque Limit		EtherCAT communication control										
	Bandwidth		Maximum 2.5KHz										
Torque Limitation Mode	Command Control		EtherCAT communication control										
	Command Smoothing		Low-pass filter										
	Speed Limit		EtherCAT communication control										
Input and Output Signals	Digital Input		Servo on, forward and backward inhibit limits, pulse error clear, torque direction selection, speed command selection, positioning command selection, forward and backward rotation direction selection, proportion control switching, torque limit switching, abnormal alarm reset, emergency stop, forward/reverse inhibit limit, control										
	Digital Output		Torque limit reached, speed limit reached, reserved signal, zero speed reached, position reached, speed reached, alarm display, alarm signal, homing completed, overload level arrived, internal position arrived, position command overflow, forward software limit arrived, reverse software limit arrived, capture program completed, E-CAM master position area										
Environment	Temperature		0℃~55℃ (Force air circulation in the surrounding area if the temperature goes beyond 45℃);Storage: -20~65℃ (non freezing)										
	Humidity		Maximum 90% RH (non condensing) ; Storage: Below 90% RH (non condensing)										
	Installation Location		Indoor (avoid direct sunlight); no corrosive gas, no flammable gas, no oil mist or dust										
	Altitude		Between sea level and 1000 m										
	Vibration		Maximum 5.9m/s2										
Cooling System			Natural cooling, open					Fan cooling, open					
Weight (kg)			1.4					1.7		2.6		5.9	



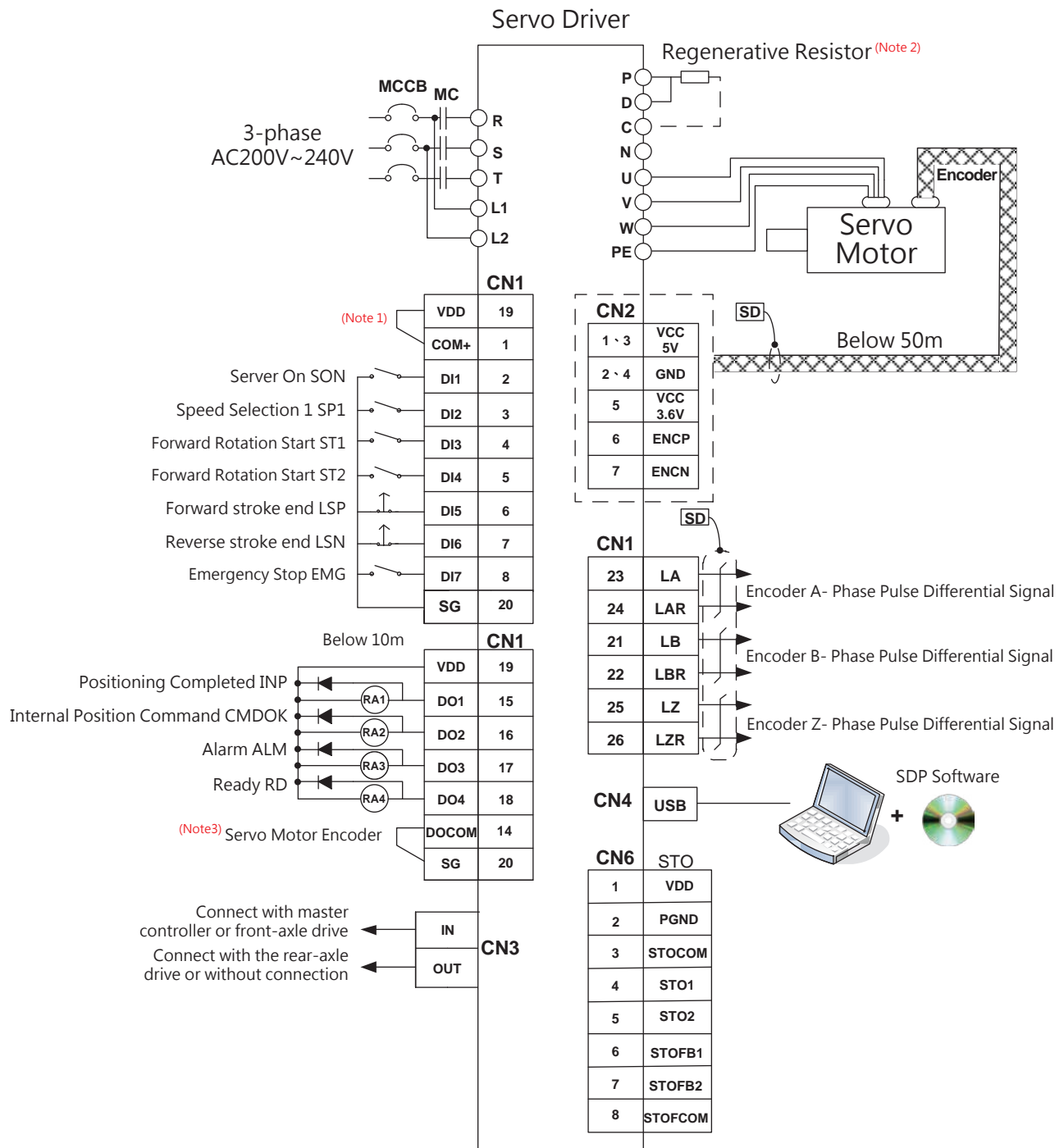


# Wiring Diagram

## Pr Mode: Built-in Single-axis Control Mode



## ■ S Mode: Speed Control Mode



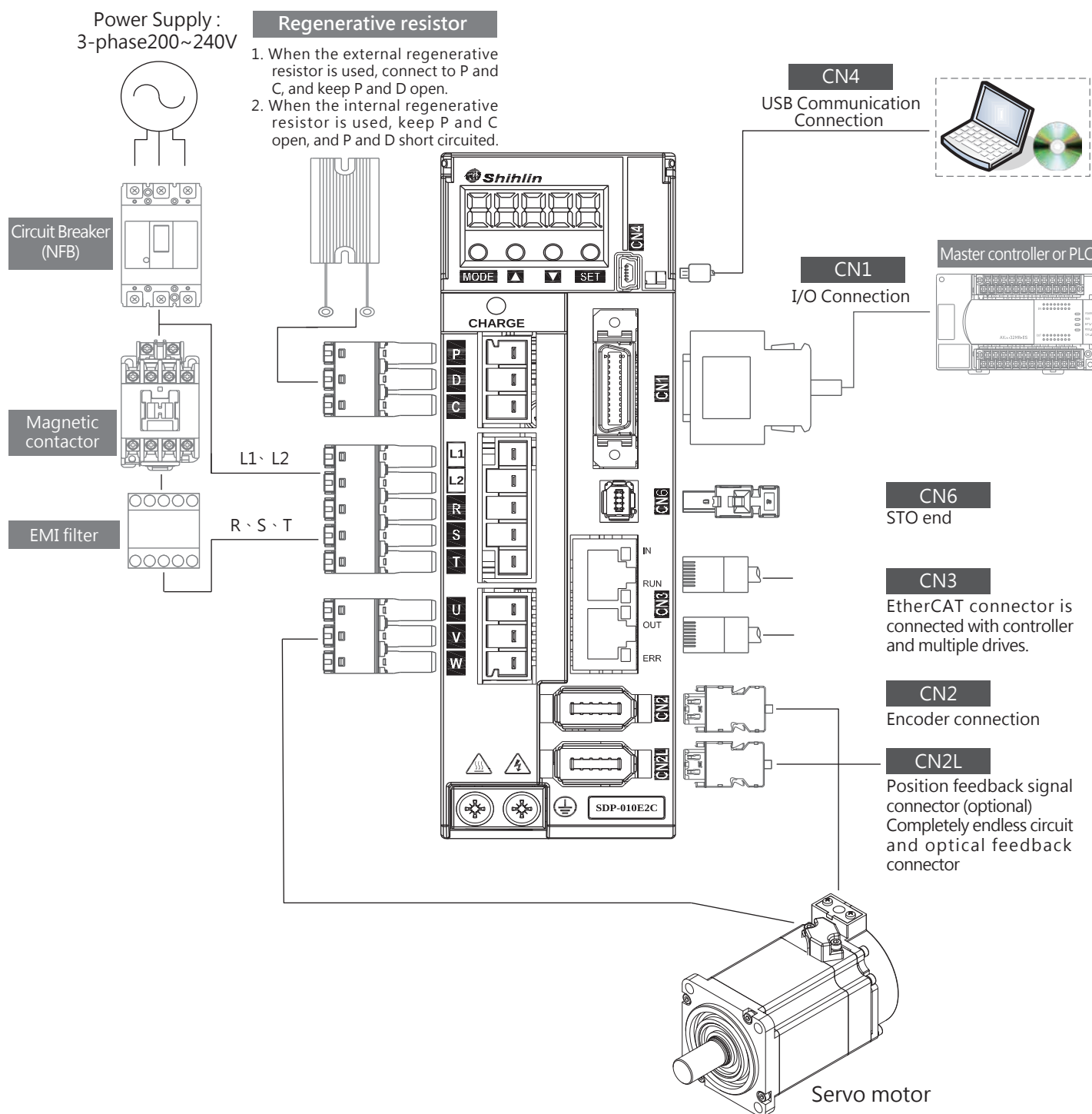
## Notes

**Note 1 :** If external power is used, VDD cannot be connected to COM +.

**Note 2 :** Please refer to the manual for the wiring of regenerative resistor and brake units.

**Note 3 :** Please refer to the manual for the Sink Type and Source Type DO output wiring.

# Connections with Peripheral Equipment



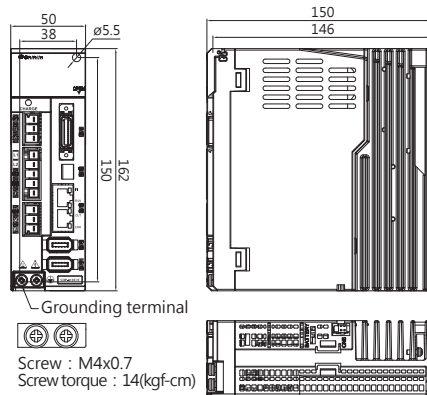
## Notes

1. Connect external regeneration unit, please remove P and D short circuit line and connect external resistor to P、C point. Every capacity has its related resistor value, please refer to "Instruction Manual" .
2. Dedicated power cable is necessary with a brake motor, the exclusive power cable must be prepared and requires inputting DC24V power. Please don't use drive internal VDD connector for power. Please refer to "Operation Manual" for details.
3. The usage of absolute position, please select the optional battery "SDH-BAT-SET" .

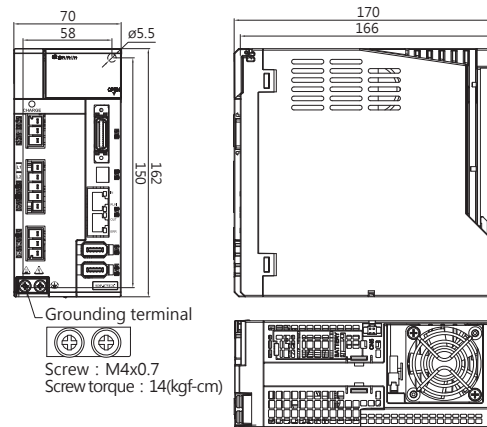
# Servo Drive Dimensions

Unit : mm

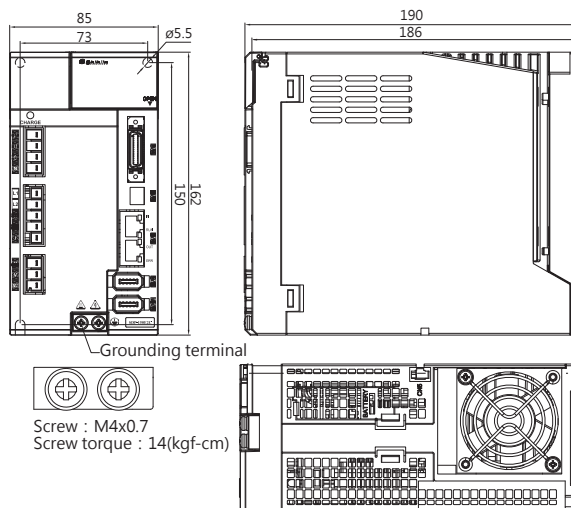
SDP-005E2C、SDP-010E2C  
SDP-020E2C、SDP-040E2C



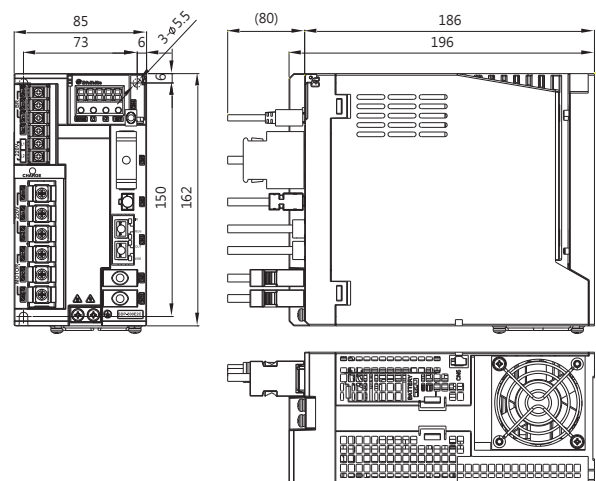
SDP-075E2C、SDP-100E2C



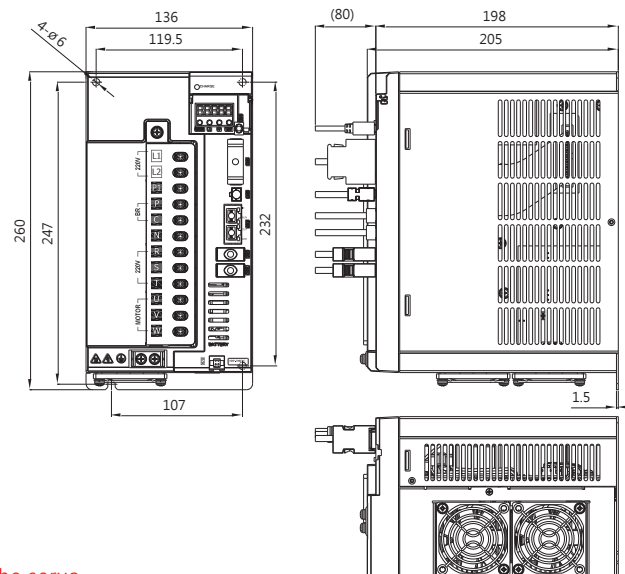
SDP-150E2C、SDP-200E2C  
SDP-300E2C



SDP-500E2C



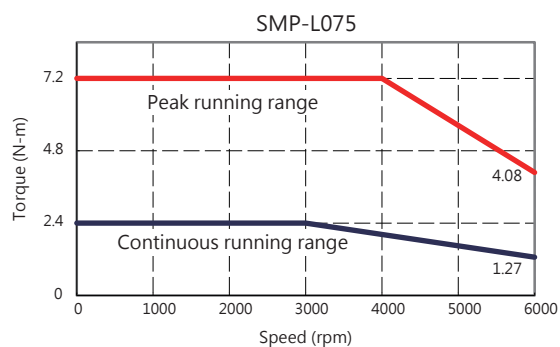
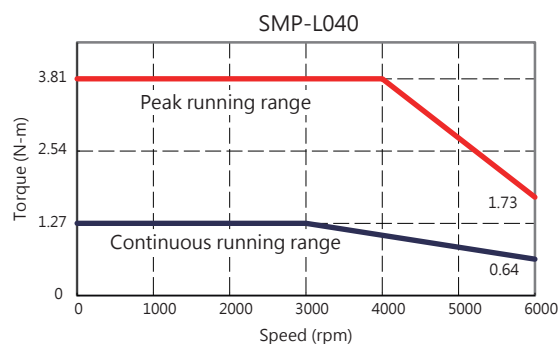
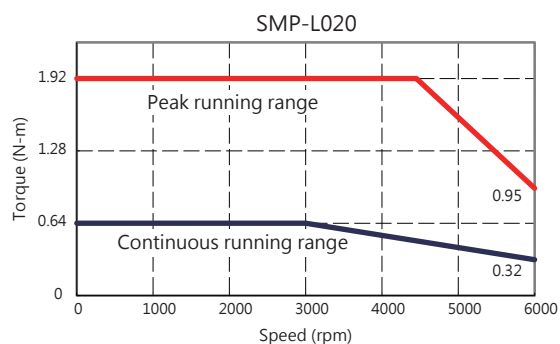
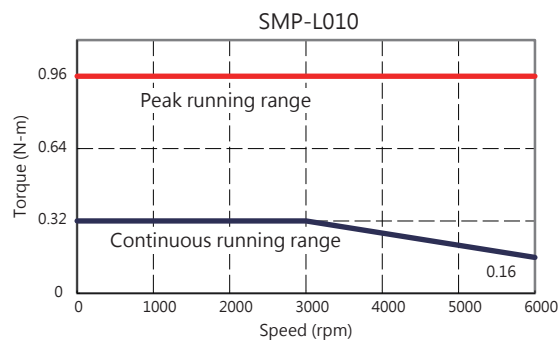
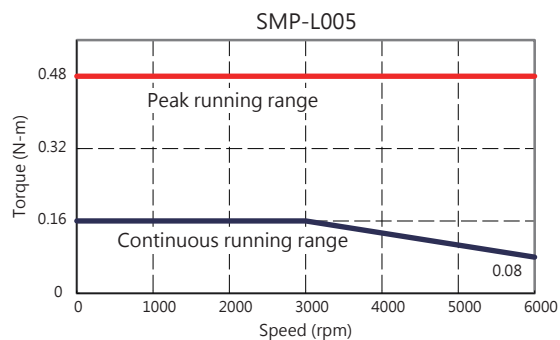
SDP-700E2C



Note : Dimensions and weights of the servo drive may be revised without prior notice. Please refer to Shihlin official website.

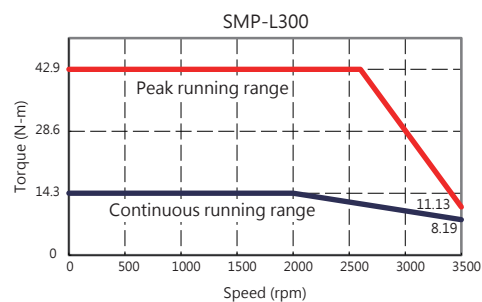
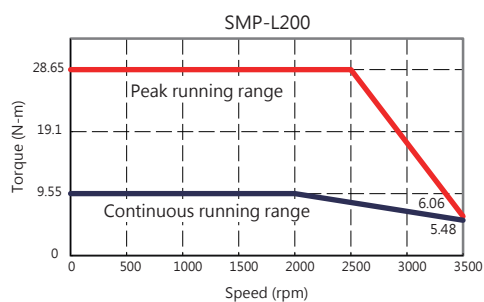
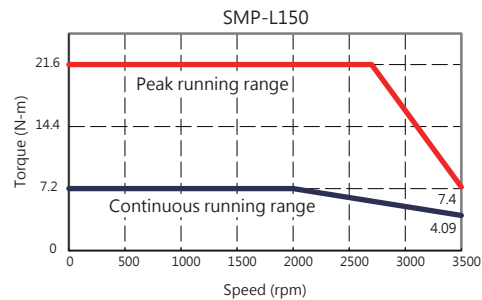
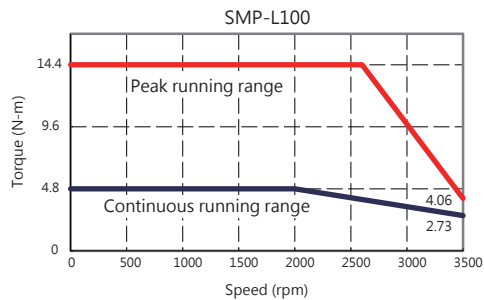
# Servo Motor Torque Curves

## SMP-L□□□30 series torque characteristics\*



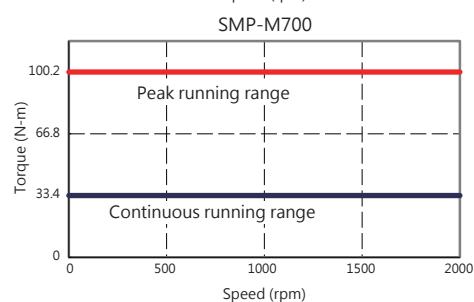
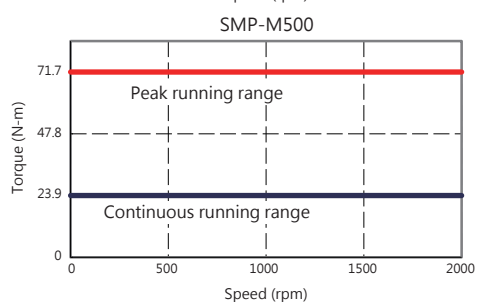
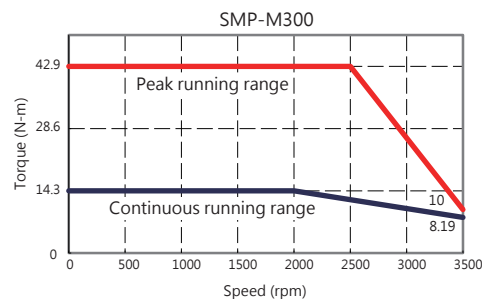
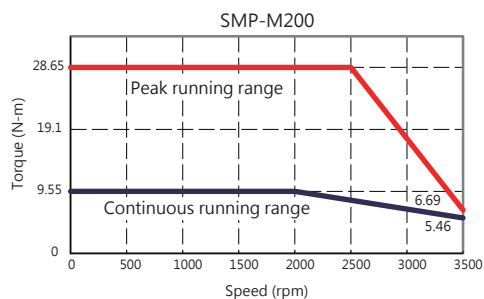
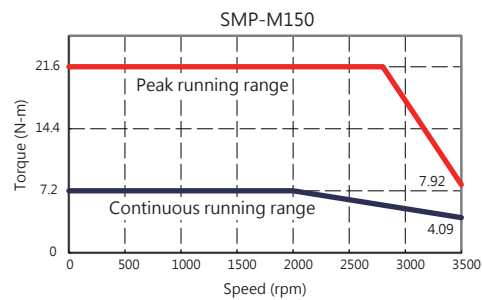
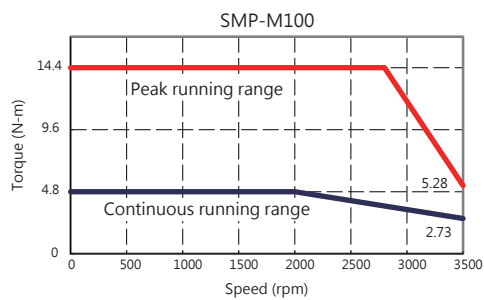
\* Above is the torque characteristic curve for motor with the power 3-phase 220V.  
When the voltage is insufficient, the torque characteristic will be reduced.

## SMP-L□□□20 series torque characteristics\*



\* Above is the torque characteristic curve for motor with the power 3-phase 220V.  
When the voltage is insufficient, the torque characteristic will be reduced.

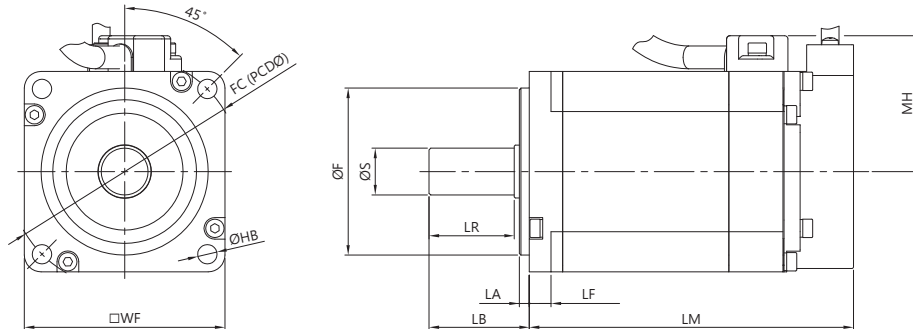
## SMP-M□□□20 series torque characteristics\*





## Dimensions

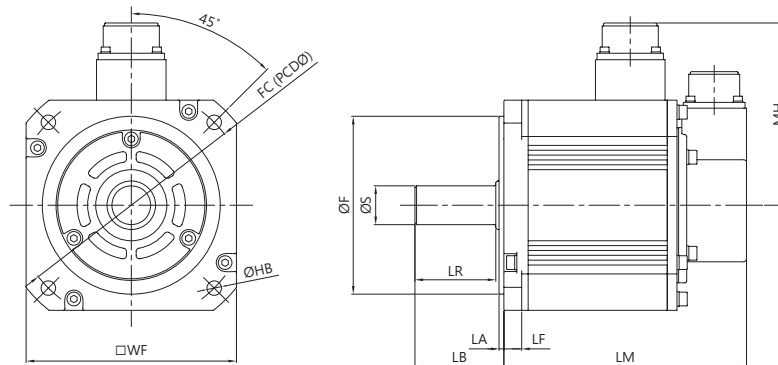
### Small Capacity, Low Inertia SMP-L□□□30



Model	Variable dimensions (mm)										
	WF	$\phi S$	$\phi F$	LA	LB	LF	LR	MH	LM*	FC	HB
SMP-L005	40	$\phi 8^{0}_{-0.009}$	$\phi 30^{0}_{-0.03}$	2.5	25.5	5.5	21.5	31	64.5 (99.2)	46	2- $\phi 4.5$
SMP-L010									80.0 (114.7)		
SMP-L020	60	$\phi 14^{0}_{-0.011}$	$\phi 50^{0}_{-0.03}$	3	30	6.5	25	41	77.0 (112)	70	4- $\phi 5.8$
SMP-L040									97.0 (132)		
SMP-L075	80	$\phi 19^{0}_{-0.013}$	$\phi 70^{0}_{-0.03}$	3	40.7	7.5	35.5	51	102.0 (141)	90	4- $\phi 6.6$

\*() Dimensions in brackets are for the models with electromagnetic brake.

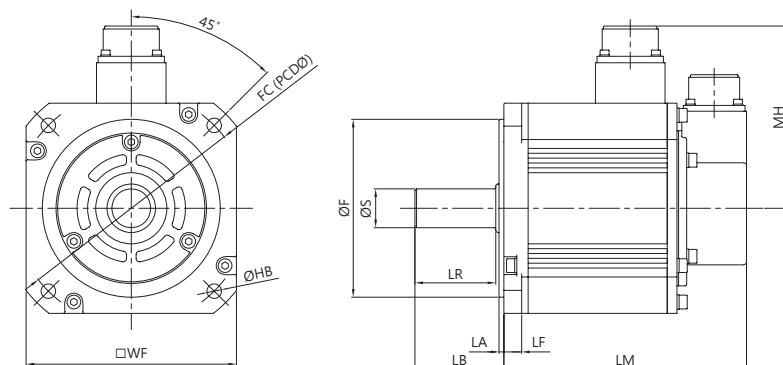
### Medium Capacity, Medium Inertia SMP-L□□□20



Model	Variable dimensions (mm)										
	WF	$\phi S$	$\phi F$	LA	LB	LF	LR	MH	LM*	FC	HB
SMP-L100	130	$\phi 24^{0}_{-0.013}$	$\phi 110^{0}_{-0.035}$	3	55	11	50	113	127 (161)	145	4- $\phi 9.0$
SMP-L150									141.5 (175.5)		
SMP-L200									156 (190)		
SMP-L300									185 (219)		

\*() Dimensions in brackets are for the models with electromagnetic brake.

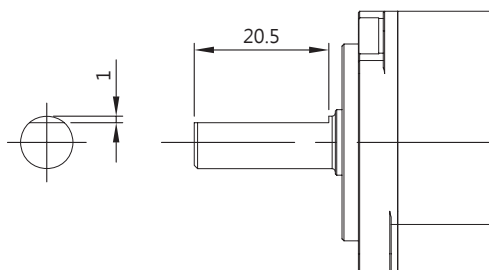
## Medium Capacity, Medium Inertia SMP-M□□□20



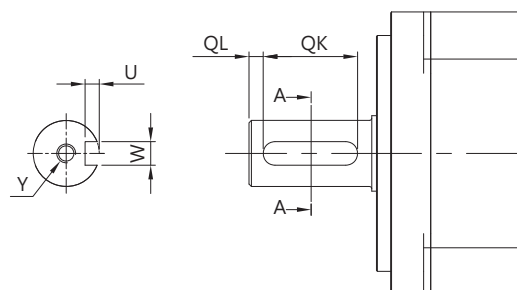
Model	Variable dimensions (mm)										
	WF	$\phi S$	$\phi F$	LA	LB	LF	LR	MH	LM*	FC	HB
SMP-M100	130	$\phi 24 \begin{smallmatrix} 0 \\ -0.013 \end{smallmatrix}$	$\phi 110 \begin{smallmatrix} 0 \\ -0.035 \end{smallmatrix}$	3	55	11	50	113	127 (161)	145	4- $\phi 9.0$
SMP-M150									141.5 (175.5)		
SMP-M200	176	$\phi 35 \begin{smallmatrix} 0 \\ -0.016 \end{smallmatrix}$	$\phi 114.3 \begin{smallmatrix} 0 \\ -0.025 \end{smallmatrix}$	3	78	18.5	74	139	139 (189)	200	4- $\phi 13.5$
SMP-M300									169 (219)		
SMP-M500									189 (239)		
SMP-M700									229 (279)		

## Motor Shaft Dimensions

### D-cut for L005 / L010

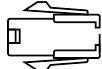

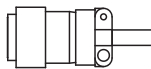

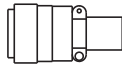
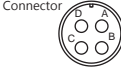

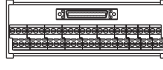
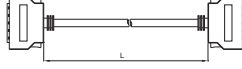

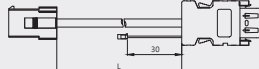
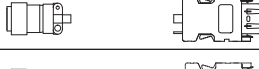
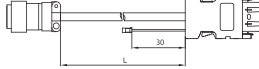



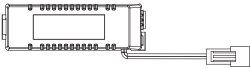
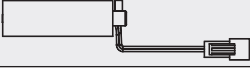
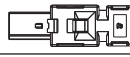


### Key-way



Model	Variable dimensions (mm)				
	QL	QK	W	U	Y
L020 / L040	3	20	$5 \begin{smallmatrix} 0 \\ -0.03 \end{smallmatrix}$	3	M4 x Depth 15
L075	5	25	$6 \begin{smallmatrix} 0 \\ -0.03 \end{smallmatrix}$	3.5	M5 x Depth 20
L100 / L150 / L200 / L300 M100 / M150	5	35	$8 \begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$	4	M8 x Depth 20
M200 / M300 / M500 / M700	5	55	$10 \begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$	5	M8 x Depth 20

# Optional Accessories

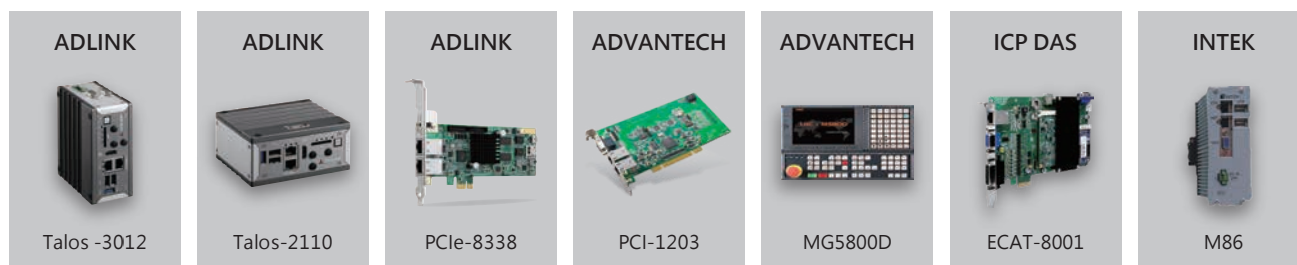
Item			Model	Content	SMP	
					L	M
Motor cable	50W~750W No brake	Connector	SDA-PWCNL1		●	
		Cable	SDA-PWCNL1-□M-L/H *1 *2			
	50W~750W No brake	Connector	SDA-PWCNL2		●	
		Cable	SDA-PWCNL2-□M-L/H *1 *2			
	1KW/1.5KW 1K/1.5K/2K/3K	Connector	SDA-PWCNM1		●	●
		Cable	SDA-PWCNM1-□M-L/H *1 *2			
		Cable for electromagnetic brake	SDA-PWCNM1B-□M-L/H			
	2KW/3K	Connector	SDA-PWCNM2			●
		Cable	SDA-PWCNM2-□M-L/H *1 *2			
		Cable for electromagnetic brake	SDA-PWCNM2B-□M-L/H *1 *2			
	SMP-M 5kW/7kW	Connector	SDH-PWCNM4			●
		Cable	5kW SDH-PWCNM4-□M-L/H			
		Cable	7kW SDH-PWCNM5-□M-L/H			●
		Brake Connector	SDH-BKCNS1			
		Brake Cable	SDH-BKCNS1-□M-L/H			
For CN1	I/O connector		SDP-CN1		●	●
	Terminal block and wire set		SDP-TB26		●	●
			SDP-TBL05M SDP-TBL1M SDP-TBL2M		●	●
For CN2	50W~750W	Connector	SDH-ENL		●	
		Cable	SDH-ENL-□M-L/H *1 *2		●	
	1KW~3KW	Connector	SDH-ENM		●	●
		Cable	SDH-ENM-□M-L/H *1 *2		●	●
For CN2L	Fully closed loop	Connector	SDH-CN2		●	●
		Cable	SDH-CN2L-05M			
For CN3	EtherCAT cable		SDP-CN3-□M		●	●
For CN4	USB communication cable		SDA-USB3M		●	●
For CN5	Absolute encoder battery set		SDH-BAT-SET		●	●
	Absolute encoder battery set		SDH-BAT		●	●
For CN6	STO communication cable		SDP-CN6-□M		●	●

\*1 : □ Indicates the cable length. Standard: 2M、3M、5M、10M; Special order: other length.

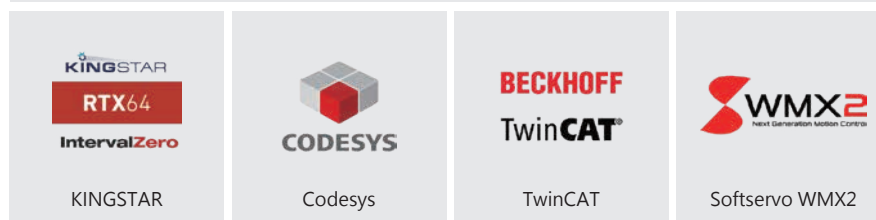
\*2 : L and H indicate bending life. L: standard, H: long bending life.

# EtherCAT Master Controller Information

## Master Controllers



## Controller



**EtherCAT**  
Conformance tested

Shihlin SDP Series



## Recommended Specification

Model	Talos-3012	Talos-2110	PCIe-8338	PCI-1203
Cycle time	250 / 500 / 1000 $\mu$ s	250 / 500 / 1000 $\mu$ s	250 / 500 / 1000 $\mu$ s	500 $\mu$ s
Supported axis	64	64	64	32
I/O points	External addition	4DI / 4DO	4DI / 4DO	8DI / 4DO

# SDP Series

AC SERVO SYSTEM

The Best Drive for Smart Machinery



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