

### ESDA Drivers

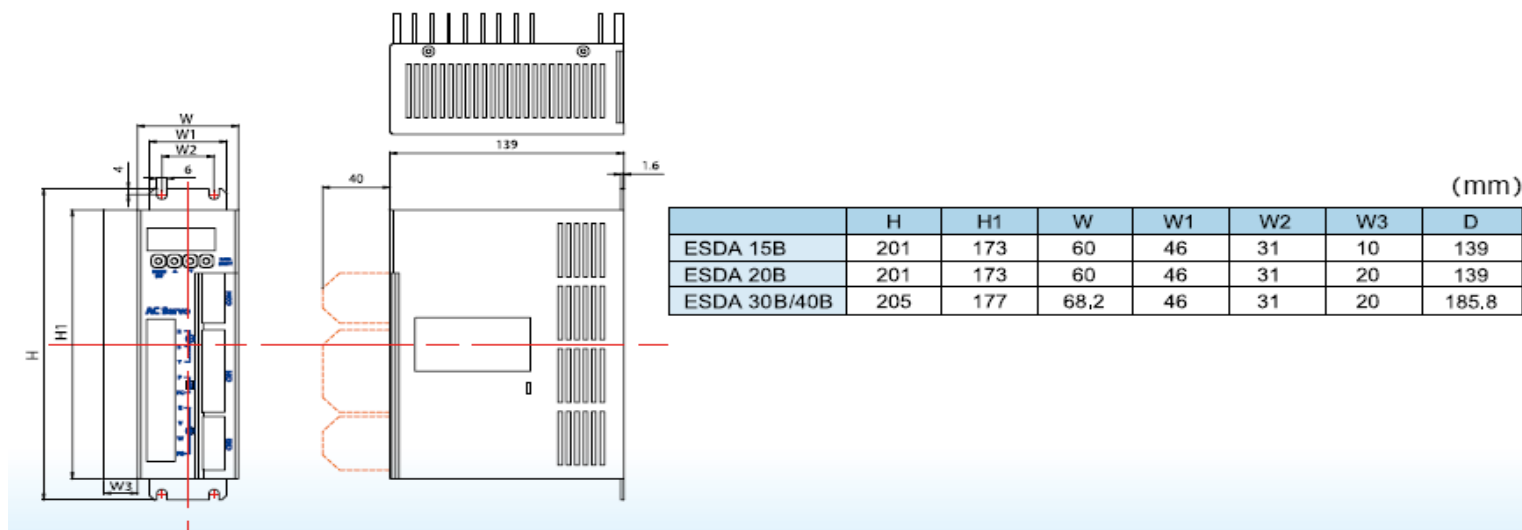


### Specification

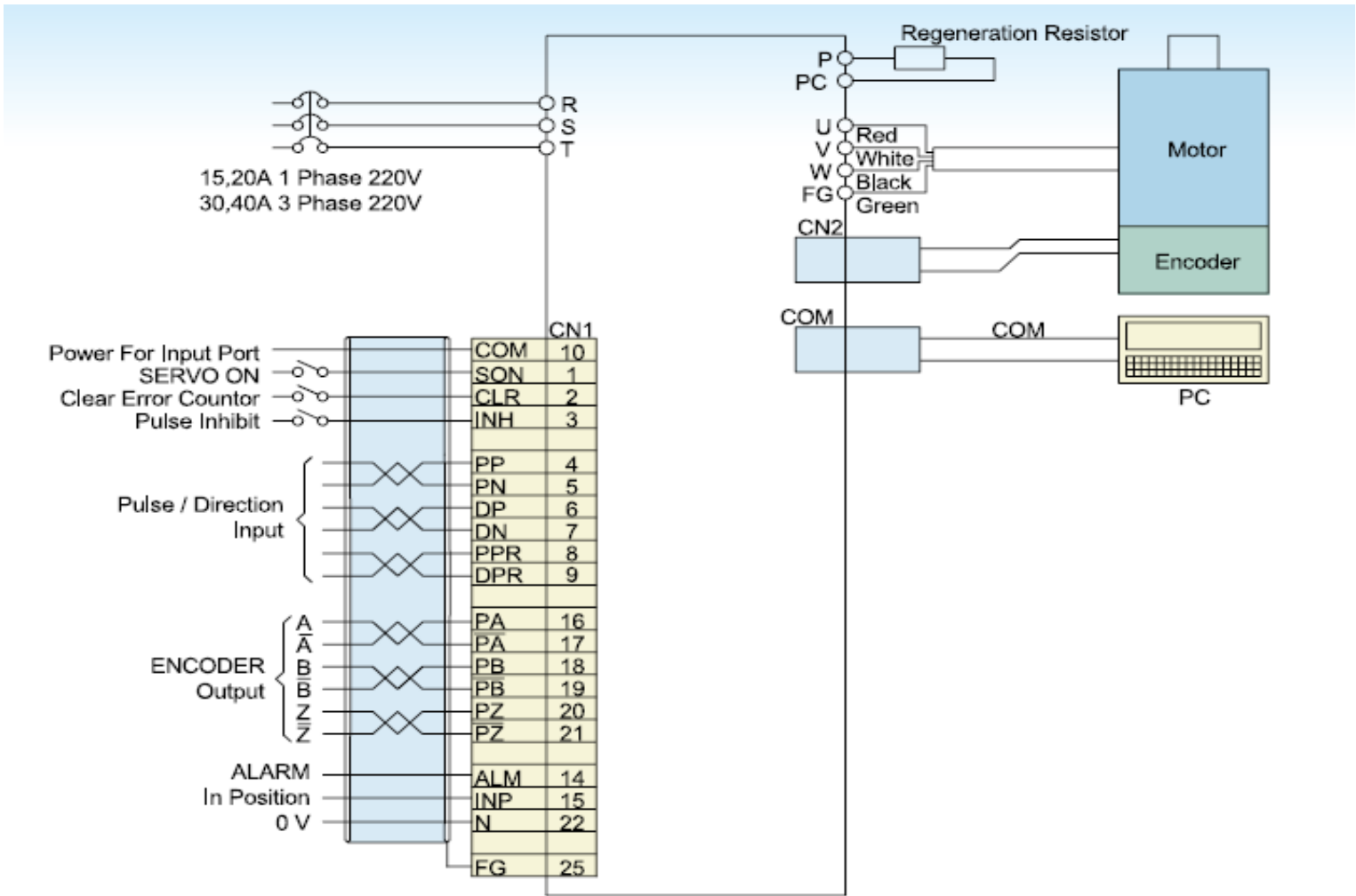
Driver		Description			
Model No.		ESDA 15B	ESDA20B	ESDA30B	ESDA 40B
Maximum Peak Current (A)		8.5A	11.4A	17.0A	22.8A
Maximum Rated Current (A)		2.8A	3.8A	5.7A	7.6A
Motor Power		120W~300W	400W~750W	750W~1kW	1kW~1.5kW
Power Source		AC180V~240V Single -Phase 50/60 Hz		AC180V~240V Three-Phase 50/60Hz	
Encoder		Incremental Type (2000~2500ppr)			
Environment	Temperature	Operation: 0~50°C Storage: -20 ~ 80°C			
	Humidity	Operation/Storage: <85% RH			
	Vibration	< 1.5G			
Control Mode		Position			
Input Type		A-B Phase, Up-Down Pulse, or Direction Pulse			
Max. Input Freq.		500kpps			
Electronic Gear Ratio		1/127≤A/B≤127 (A&B: 1 ~ 10000)			
Input Ripple Filtering		Time Constant = 0~ 10000 ms			
In Position Range		0 ~ 32767 Pulses			
JOG		Panel			
Alarm History		10 Alarm Numbers are Stroed			
Encoder Output		A, B, Z Phase Line Drive Output			
Display		5-digit LED display, 4 button			
D/I		Servo ON, Pulse Input Inhibit, Clear Error Counter			
D/O		Alarm, In Position			
Communication		RS-232C for User's Parameter Setting and Status Monitoring			
Weight (KG)		1.1	1.4	1.85	1.85

Driver		Description			
Model No.		ESDA 15B (S)	ESDA20B (S)	ESDA30B (S)	ESDA 40B (S)
Maximum Peak Current (A)		8.5A	11.4A	17.0A	22.8A
Maximum Rated Current (A)		2.8A	3.8A	5.7A	7.6A
Motor Power		120W~300W	400W~750W	750W~1kW	1kW~1.5kW
Power Source		AC180V~240V Single -Phase 50/60 Hz		AC180V~240V Three-Phase 50/60Hz	
Encoder		Incremental Type (2000~2500ppr)			
Environment	Temperature	Operation: 0~50°C Storage: -20 ~ 80°C			
	Humidity	Operation/Storage: <85% RH			
	Vibration	<0.5G			
Control Mode		Speed			
Input Tupe		0 ~ ± 10V (Looking at the Motor Shaft, +V = CCW)			
Preset (Internal Speed)		Three Preset Speeds Available Through Defining User's Parameter			
Linear Acceleration/Deceleration		Enable/Disable: May Be Defined by User's Parameter. When Enabled, the Time Constant May be Defined by User's Parameter Between 10ms ~ 10000ms			
Zero Speed Determination		0 ~ 255rpm			
Specified Speed Reached		Specified by User's Parameter, 0 ~ Rated Speed			
Servo Lock		Enable/Disable: May Be Defined by User's Parameter.			
Internal Torque		0 ~ 300% Rated Torque			
JOG		Panel			
Alam		Last 10 Alarm Numbers are Stroed			
Encoder Output		A, B, Z Phase Line Driver Output			
Display		5-digit LED display, 4 button			
D/I		Servo ON, Rotation Reverse, Internal Speed Select.			
D/O		Alarm, ZSP/BI			
Communication		RS-232C for User's Parameter Setting and Status Monitoring			
Weight (KG)		1.1	1.4	1.85	1.85

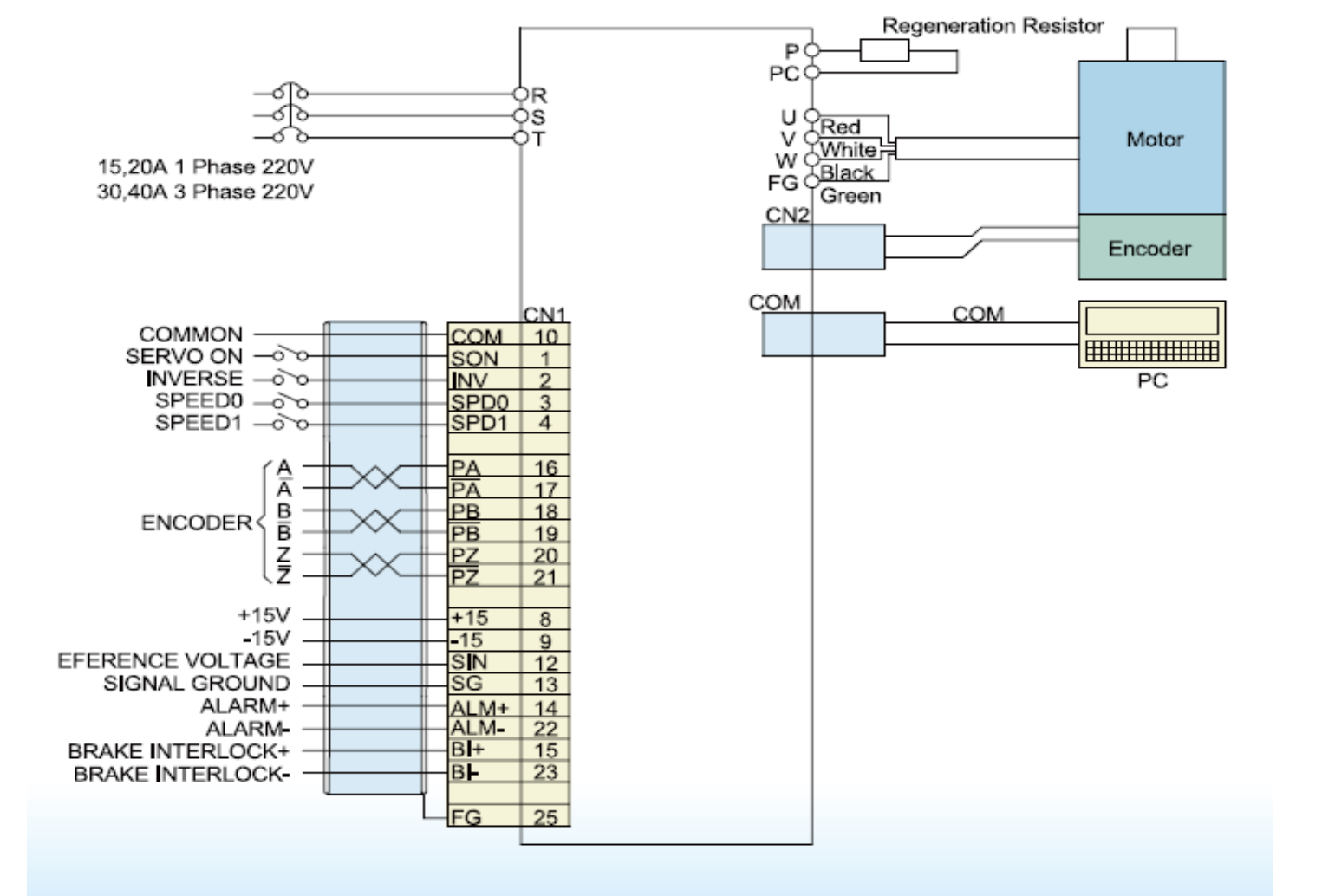
## Dimension



## Position Control Mode



## Speed Control Mode



## Motor Power Cable Connection Specification

### General

Pin No.	Lead Color	Signal
1	Red	U
2	White	V
3	Black	W
4	Green	FG
Mechanical Brake		DC+24V
Control Wire		0V

### Military Connector (With Mechanical Brake)

Pin No.	Lead Color	Signal
B	Red	U
G	White	V
E	Black	W
C	Green	FG
A	Mechanical Brake	DC+24V
F		0V

### Military Connector (Without Mechanical Brake)

Pin No.	Lead Color	Signal
A	Red	U
B	White	V
C	Black	W
D	Green	FG

## CN2 (Encoder Connection Specifications) - ESDA

Pin No	Signal	Symbol	Wiring Diagram	Lead Color		
				7F 7H 7I	7T (Tamagawa)	TSB13 (Military)
1	Power Output (+)	<b>+5V</b>		White	Red	B
2		<b>0V</b>		Black	Black	I
3	Power Output (-)	<b>0V</b>		Black	Black	I
4		<b>0V</b>		Black	Black	I
5	Encoder A Phase Input	<b>A</b>	Di-3	Green	Blue	A
6		<b><math>\bar{A}</math></b>		Blue	Blue/Black	C
7	Encoder B Phase Input	<b>B</b>	Di-3	Red	Green	H
8		<b><math>\bar{B}</math></b>		Pink	Green/Black	D
9	Encoder B Phase Input	<b>Z</b>	Di-3	Yellow	Yellow	G
10		<b><math>\bar{Z}</math></b>		Orange	Yellow/Black	E
20	Shield	<b>FG</b>	Shielded Twisted-Pair Cables			F

