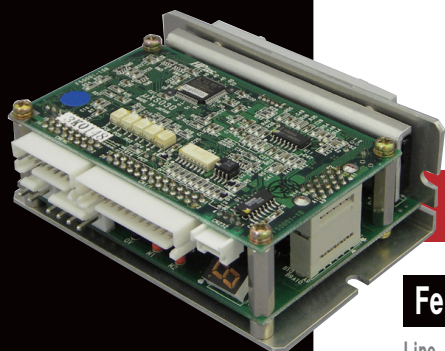


## DC servo driver



※Picture is "μXS030"

### Feature

Line up many small and high performance driver products. Various motors of various makers are applicable.

Model	μXS030DC-□ (□=2.5, 5, 10)	μSB-□A2 (□=0.5, 1, 2, 4)	μSB-□AP2 (□=0.5, 1, 2, 4)
Control mode	Position	Speed, Torque, Voltage	Analog positioning by potentiometer
Drive method	PWM(40KHz)	PWM(40KHz)	PWM(40KHz)
Main power supply voltage	DC+10V ~ +40V	DC+5V ~ +50V	DC+5V ~ +50V
Control power supply voltage	No need	±15V, 50mAmax	±15V, less than 80mA
Constant rated output current	2.5A	±4A	±4A
Maximum output current	±2.5A, 5A, 10A	±1.25A, 2.5A, 5A, 10A	±1.25A, 2.5A, 5A, 10A
Maximum output voltage	±20V	±20.5V	±21VDC
Speed feedback voltage	N/A	±6V ~ ±25.5VDC	N/A
Position command voltage	N/A	N/A	0 ~ ±10V
Position feedback voltage	N/A	N/A	±10V(Ratio of position command voltage=1:1)
Command input	1pulse, 2pulse, 2B-phase pulse	0 ~ ±10V	N/A
Command input impedance	N/A	200KΩ	100KΩ
Speed resolution	Due to encoder pulse counts	Over 5000:1	N/A
Speed stability	Due to encoder pulse counts	Less than 0.5% (0 ~ 100% loaded)	N/A
Current response speed	N/A	Less than 200μsec	Less than 200μsec
Input signal	CW command, CCW command Servo ON, Alarm reset, Gain control, CW prohibit limit, CCW prohibit limit	Servo on, command voltage	Servo on, command voltage
Output signal	Encoder disconnection, Fin overheated, Full torque, Full count, EEPROM abnormality, EEPROM data error, Position error remaining amount is within IN-Position setting value, CW prohibit limit, CCW prohibit limit, Encoder monitor, Encoder zero position mark	Full torque, Fin overheat alarm	Full torque, Fin overheat alarm
Dimension	W35×H100×D73	78×60×34	78W ×60D ×47H
Weight	180g	110g	155g
Operating temperature/humidity (No condensation)	0 ~ 50°C, 35 ~ 80%	0 ~ 50°C, 35 ~ 80%	0 ~ 50°C, 35 ~ 80%
Storage temperature/humidity (No condensation)	-20 ~ 85°C, 35 ~ 80%	-20 ~ 85°C, 35 ~ 80%	-20 ~ 85°C, 35 ~ 80%

Model	$\mu$ SC-□A (□=0, 5, 1, 2, 4)	$\mu$ SD-12A	$\mu$ SE-12A
Control mode	Speed, Torque, Voltage	Speed, Torque, Voltage	Speed, Torque, Voltage
Drive method	PWM(40KHz)	PWM(more than 32KHz)	PWM(more than 40KHz)
Main power supply voltage	+10V ~ +40V	+18V ~ +36V	+12V ~ +50V $\pm$ 10%
Control power supply voltage	No need	$\pm$ 15V, more than 70mA	No need
Constant rated output current	$\pm$ 0.5A, 1A, 2A, 4A	$\pm$ 12A	$\pm$ 2A
Maximum output current	$\pm$ 1.25A, 2.5A, 5A, 10A	$\pm$ 30A	$\pm$ 5A(-0% ~ +5%)
Maximum output voltage	$\pm$ 21VDC	$\pm$ 21VDC	$\pm$ 20VDC
Speed feedback voltage	$\pm$ 6V ~ $\pm$ 50VDC	$\pm$ 6V ~ $\pm$ 50VDC	$\pm$ 6V ~ $\pm$ 25.5VDC
Position command voltage	N/A	N/A	N/A
Position feedback voltage	N/A	N/A	N/A
Command input	0 ~ $\pm$ 10V	$\pm$ 10V	0 ~ $\pm$ 10V
Command input impedance	200K $\Omega$	200K $\Omega$	200K $\Omega$
Speed resolution	Over 5000:1	Over 5000:1	Over 5000:1
Speed stability		Less than 0.5%(0 ~ 100% loaded)	Less than 0.5%(0 ~ 100% loaded)
Current response speed	Less than 200 $\mu$ sec	Less than 200 $\mu$ sec	Less than 200 $\mu$ sec
Input signal	Servo ON, Alarm reset	Servo on, P-control	Servo ON, Alarm reset, P-control
Output signal	Full torque, Fin overheated alarm	Full torque alarm	Loop error, overheated, Encoder disconnection
Dimension	W100×D63.5×H35	W100×D93.5×H36	W105×D73.5×H28
Weight	145g	240g	210g
Operating temperature/humidity (No condensation)	0 ~ 50°C, 35 ~ 80%	0 ~ 50°C, 35 ~ 80%	0 ~ 50°C, 35 ~ 80%
Storage temperature/humidity (No condensation)	-20 ~ 85°C, 35 ~ 80%	-20 ~ 85°C, 35 ~ 80%	-20 ~ 85°C, 35 ~ 80%