





AC Servo Driver MINAS A6 family

Special Order Product

MINAS A6BN Series



Application Highlighted Linear Motor Control Servo Driver

Gantry Control

Responsive

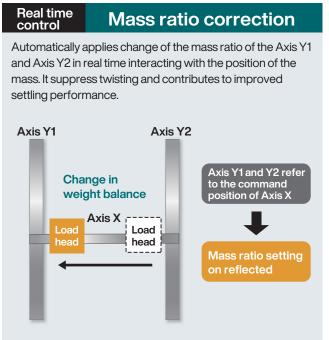
Accurate

Simple

- Multi-axis cooperative control for gantry system
- Automatic table twist correction
- Real-time response to changes in weight balance



Automatic generation **Table twist correction** Generates a position correction data and stores it in the driver. The driver corrects the operation according to the data. Axis Y1 Axis Y2 Measure in advance **Table Setting** 1000000 2000000 3000000 --3000000 1000000 1000005 2000000 1999998



Application examples

Key application industries

LCD manufacturing, electronic component mounting, machine tools, etc.

Main application equipment

Conveyance equipment, inspection equipment, coating equipment, laser processing machines, etc.





Lineup Details

		Frame	Rated current A (rms)			Max Current
Power supply	Part number		Carrier frequency			
			6 kHz	8 kHz	12 kHz	A(rms)
	MADLT05BN	Α	-	-	1.2	3.8
	MADLT15BN	Α	-	-	1.6	4.8
Single /Three Phase	MBDLT25BN	В	2.6	2.1	-	7.3
AC 200 V to 240 V	MCDLT35BN	С	4.1	-	-	13.2
	MDDLT45BN	D	5.2	-	-	15.5
	MDDLT55BN	D	9.4	-	-	26.1
	MEDLT83BN	Е	13.4	-	-	37.4
	MEDLT93BN	Е	17.0	-	-	48.0
Th	MFDLTA3BN	F	18.7	-	-	54.4
Three-phase AC 200 V to 240 V	MFDLTB3BN	F	33.0	-	-	72.1
AC 200 V to 240 V	MGDLTC3BN	G	40.0	-	-	116.6
	MHDLTE3BN	Н	-	66.1	-	167.2
	MHDLTF3BN	Н	80.2	-	-	207.9

Power supply	Part number	Frame	Rated current A (rms) Carrier frequency			Max Current
113			6 kHz	8 kHz	12 kHz	A(rms)
	MADLT01BN	Α	-	-	1.2	3.7
Single-phase	MADLT11BN	Α	-	-	1.6	5.5
AC 100 V to 120 V	MBDLT21BN	В	2.5	2.1	-	7.4
	MCDLT31BN	С	4.6	4.1	-	14.3
	MDDLT44BN	D	1.5	1.2	0.8	4.5
	MDDLT54BN	D	2.9	- 1	-	8.7
Three-phase	MDDLT64BN	D	4.7	-	-	14.1
AC 400 V	MEDLT84BN	Е	6.7	1	-	19.7
	MFDLTA4BN	F	9.4	-	-	28.2
	MFDLTB4BN	F	16.5	-	-	42.4

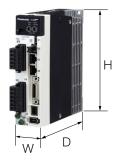
^{*}Select and use the applicable motor so that its rated current and maximum current are below the stated value.

A6BN Common Specifications

ltem				Contents			
	100 V	Main circuit Power	A-C Frame	Single-phase 100 V to 120 V, -15% to + 10%, 50/60 Hz			
Power supply	system	Control Circuit Power	A-C Frame	Single-phase 100 V to 120 V, -15% to + 10%, 50/60 Hz			
	200 V system	Main circuit Power	A-D Frame	Single-phase/Three-phase 200 V to 240 V, -15% to + 10%, 50/60 Hz			
			E-H Frame	Three-phase 200 V to 240 V, -15% to + 10%, 50/60 Hz			
		Control Circuit Power	A-D Frame	Single-phase 200 V to 240 V, -15% to + 10%, 50/60 Hz			
			E-H Frame	Single-phase 200 V to 240 V, -15% to + 10%, 50/60 Hz			
	400 V system	Main circuit Power	D-F Frame	Three-phase 380 Y/220 Y to 480 Y/277 V, -15% to + 10%, 50/60 Hz, TN (Grounding neutral to earth)			
		Control Circuit Power	D-F Frame	DC 24 V, ± 15 %			
External	scale feed	pack		A/B phase/origin signal differential input type Panasonic serial communication type (* 1)			
Control signal		General Input	8 Inputs	Genral input function is selected by setting parameters.			
		General Output	3 Outputs	General output function is selected by setting parameters.			
Analog signal		Output	2 Outputs	Analog Monitor 1, Analog Monitor 2			
Pulse signal		Output	2 Outputs	Encoder pulses are output with A/B phase line driver signal.			
Communication		EtherCAT		Real-time motion command transmission, parameter setting, status monitoring, etc.			
function		USB		Parameter setting and status monitor are available by connecting a personal computer, etc.			
Safety terminal				Connectors for functional safety			
Front panel				(1) Rotary switch (2) 2-digit, 7-segment LED and 2 lights for status display (3) Analog monitor connector			
Regenerative				A, B, G, H frame: No built-in regenerative resistor (external only) C to F frame: Regenerative resistor built in (external also available)			
Dynamic braking				A-G Frame: Built-in H Frame: External only			
Control mode				Position Control: Cyclic Position Control (csp), Homing Position Control (hm) Speed Control: Profile Speed Control (pv), Cyclic Speed Control (csv) Torque control: Profile torque control (tq), Cyclic torque control (cst) The above control modes are switched by EtherCAT communication command.			
Gantry cooperative control function				① Automatic table twist correction ② Automatic mass ratio correction			

^{*1} See our partner product catalog for compatible scale manufacturers and part numbers.

External Dimensions



^{*}The photograph is the appearance of frame A product. Appearance varies by frame. On the other end of the connector, the lead wire, please secure the additional space for the mating plug and lead wire.

		W [mm]	H [mm] () includes mounting hardware	D [mm] () includes the power supply connector and motor connector on the driver main unit side	Mass [kg]
	Α	40	150(180)	130(150)	Approx. 0.8
	В	55	150(180)	130(150)	Approx. 1.0
	С	65	150(180)	170(191)	Approx. 1.6
	D	85	150(180)	170(191)	Approx. 2.1
	Е	85	168(198)	196.5(216)	Approx. 2.7
	F	130	220(250)	219.5	Approx. 5.2
	G	184	220(257)	257	Approx. 8.2
l	Н	244	390	222	Approx.14.2(MHDLTE3BN) Approx.15.2 (MHDLTF3BN)



Web site: industrial.panasonic.com/ac/e/

[■] Publication Panasonic Industry Co., Ltd., Industrial Device Business Division