

14. Specification for each model

Model No.	MADLN01SE MADLN01SG MADLT01SF	MADLN11SE MADLN11SG MADLT11SF	MADLN05SE MADLN05SG MADLT05SF	MADLN15SE MADLN15SG MADLT15SF
Power supply input	Single phase 100 V	Single phase 100 V	Single phase/ 3 phase 200 V	Single phase/ 3 phase 200 V
Maximum output current	6 A	8 A	6 A	8 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Externally connected	Externally connected	Externally connected	Externally connected
Auto gain tuning function	Provided	Provided	Provided	Provided
Dynamic brake function	Provided	Provided	Provided	Provided
Absolute system	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}
Operation temperature	0 – 55 °C	0 – 55 °C	0 – 55 °C	0 – 55 °C
Control power cable	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18
Main power supply cable	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18
Ground cable	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14
Motor cable	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18
Inrush current (Main power supply) (*1)	Max. 7 A	Max. 7 A	Max. 14 A	Max. 14 A
Inrush current (Control power supply) (*1)	Max. 7 A	Max. 7 A	Max. 14 A	Max. 14 A
Weight	Approx 0.8 kg	Approx 0.8 kg	Approx 0.8 kg	Approx 0.8 kg
Dimensions	Size A	Size A	Size A	Size A

(*1) The current is the value calculated with the voltage as 100 V when the product power input voltage is 100 V specification and 200 V when the product is 200 V specification.

Model No.	MBDLN21SE MBDLN21SG MBDLT21SF	MBDLN25SE MBDLN25SG MBDLT25SF	MCDLN31SE MCDLN31SG MCDLT31SF	MCDLN35SE MCDLN35SG MCDLT35SF
Power supply input	Single phase 100 V	Single phase/ 3 phase 200 V	Single phase 100 V	Single phase/ 3 phase 200 V
Maximum output current	12 A	12 A	22 A	22 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Externally connected	Externally connected	Built-in	Built-in
Auto gain tuning function	Provided	Provided	Provided	Provided
Dynamic brake function	Provided	Provided	Provided	Provided
Absolute system	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}
Operation temperature	0 – 55 °C	0 – 55 °C	0 – 55 °C	0 – 55 °C
Control power cable	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18
Main power supply cable	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18
Ground cable	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14
Motor cable	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18	HVSF 0.5 - 2.0 mm ² AWG14 - 18	HVSF 0.75 - 2.0 mm ² AWG14 - 18
Inrush current (Main power supply) (*1)	Max. 7 A	Max. 14 A	Max. 15 A	Max. 29 A
Inrush current (Control power supply) (*1)	Max. 7 A	Max. 14 A	Max. 7 A	Max. 14 A
Weight	Approx 1.0 kg	Approx 1.0 kg	Approx 1.6 kg	Approx 1.6 kg
Dimensions	Size B	Size B	Size C	Size C

(*1) The current is the value calculated with the voltage as 100 V when the product power input voltage is 100 V specification and 200 V when the product is 200 V specification.

Model No.	MDDLN45SE MDDLN45SG MDDLTL45SF	MDDLN55SE MDDLN55SG MDDLTL55SF	MEDLN83SE MEDLN83SG MEDLTL83SF	MEDLN93SE MEDLN93SG MEDLTL93SF
Power supply input	Single phase/ 3 phase 200 V	Single phase/ 3 phase 200 V	3 phase 200V	3 phase 200V
Maximum output current	24 A	40 A	60 A	80 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Built-in	Built-in	Built-in	Built-in
Auto gain tuning function	Provided	Provided	Provided	Provided
Dynamic brake function	Provided	Provided	Provided	Provided
Absolute system	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}
Operation temperature	0 – 55 °C	0 – 55 °C	0 – 55 °C	0 – 55 °C
Control power cable	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18	HVSF 0.75 mm ² AWG18
Main power supply cable	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14
Ground cable	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14
Motor cable	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 2.0 mm ² AWG14	HVSF 3.5 mm ² AWG12
Inrush current (Main power supply) (*1)	Max. 29 A	Max. 29 A	Max. 29 A	Max. 29 A
Inrush current (Control power supply) (*1)	Max. 14 A	Max. 14 A	Max. 14 A	Max. 14 A
Weight	Approx 2.1 kg	Approx 2.1 kg	Approx 2.7 kg	Approx 2.7 kg
Dimensions	Size D	Size D	Size E	Size E

(*1) The current is the value calculated with the voltage as 100 V when the product power input voltage is 100 V specification and 200 V when the product is 200 V specification.

Model No.	MFDLNA3SE MFDLNA3SG MFDLTA3SF	MFDLNB3SE MFDLNB3SG MFDLTB3SF
Power supply input	3 phase 200 V	3 phase 200 V
Maximum output current	100 A	120 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Built-in	Built-in
Auto gain tuning function	Provided	Provided
Dynamic brake function	Provided	Provided
Absolute system	Available ^{NOTE)}	Available ^{NOTE)}
Operation temperature	0 – 55 °C	0 – 55 °C
Control power cable	HVSF 0.75 mm ²	HVSF 0.75 mm ²
	AWG18	AWG18
Main power supply cable	HVSF 3.5 mm ²	HVSF 3.5 mm ²
	AWG12	AWG12
Ground cable	HVSF 3.5 mm ²	HVSF 3.5 mm ²
	AWG12	AWG12
Motor cable	HVSF 3.5 mm ²	HVSF 3.5 mm ²
	AWG12	AWG12
Inrush current (Main power supply) (*1)	Max. 22 A	Max. 22 A
Inrush current (Control power supply) (*1)	Max. 14 A	Max. 14 A
Weight	Approx 5.2 kg	Approx 5.2 kg
Dimensions	Size F	Size F

(*1) The current is the value calculated with the voltage as 100 V when the product power input voltage is 100 V specification and 200 V when the product is 200 V specification.

Model No.	MGDLTC3SF	MHDLTE3SF	MHDLTF3SF
Power supply input	3 phase 200 V	3 phase 200 V	3 phase 200 V
Maximum output current	160 A	240 A	360 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Externally	Externally	Externally
Auto gain tuning function	Provided	Provided	Provided
Dynamic brake function	Provided	None	None
Absolute system	Available ^{NOTE)}	Available ^{NOTE)}	Available ^{NOTE)}
Operation temperature	0-55 °C	0-55 °C	0-55 °C
Control power cable	HVSF 0.75 mm ²	HVSF 0.75 mm ²	HVSF 0.75 mm ²
	AWG18	AWG18	AWG18
Main power supply cable	HVSF 8.0 mm ²	HVSF 22 mm ²	HVSF 38 mm ²
	AWG8	AWG4	AWG2
Ground cable	HVSF 8.0 mm ²	HVSF 22 mm ²	HVSF 38 mm ²
	AWG8	AWG4	AWG2
Motor cable	HVSF 14 mm ²	HVSF 22 mm ²	HVSF 38 mm ²
	AWG6	AWG4	AWG2
Inrush current (Main power supply) (*1)	Max. 66 A	Max. 66 A	Max. 66 A
Inrush current (Control power supply) (*1)	Max. 15 A	Max. 15 A	Max. 15 A
Weight	Approx.8.2 kg	Approx14.2 kg	Approx15.2 kg
Dimensions	Size G	Size H	Size H

(*1) The current is the value calculated with the voltage as 100 V when the product power input voltage is 100 V specification and 200 V when the product is 200 V specification.

Model No.	MDDLT54SF	MDDLT64SF	MEDLT84SF
Power supply input	3-phase 400 V	3-phase 400 V	3-phase 400 V
Maximum output current	15 A	20 A	28 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Built in	Built in	Built in
Auto gain tuning function	Provided	Provided	Provided
Dynamic brake function	Provided	Provided	Provided
Absolute system	Available	Available	Available
Operation temperature	0-55 °C	0-55 °C	0-55 °C
Control power cable	HVSF0.52mm ²	HVSF0.52mm ²	HVSF0.52mm ²
	AWG20	AWG20	AWG20
Main power supply cable	HVSF 2.0 mm ²	HVSF 2.0 mm ²	HVSF 2.0 mm ²
	AWG14	AWG14	AWG14
Ground cable	HVSF 2.0 mm ²	HVSF 2.0 mm ²	HVSF 2.0 mm ²
	AWG14	AWG14	AWG14
Motor cable	HVSF 2.0mm ²	HVSF 2.0 mm ²	HVSF 2.0 mm ²
	AWG14	AWG14	AWG14
Inrush current (Main power supply) (*1)	Max. 30 A	Max. 30 A	Max. 30 A
Inrush current (Control power supply) (*1)	Max. 48 A	Max. 48 A	Max. 48 A
Product weight	Approx. 2.1 kg	Approx. 2.1 kg	Approx. 2.7 kg
Dimensions	Size D	Size D	Size E

(*1) The current is the value calculated with the voltage as 400 V(or DC 24 V: Control power supply) when the product power input voltage is 400 V specification.

Model No.	MFDLTA4SF	MFDLTB4SF
Power supply input	3-phase 400 V	3-phase 400 V
Maximum output current	40 A	60 A
Rotary encoder	Resolution: 8388608 P/r	Resolution: 8388608 P/r
Regenerative resistor	Built in	Built in
Auto gain tuning function	Provided	Provided
Dynamic brake function	Provided	Provided
Absolute system	Available	Available
Operation temperature	0 – 55 °C	0 – 55 °C
Control power cable	HVSF0.52mm ²	HVSF0.52mm ²
	AWG20	AWG20
Main power supply cable	HVSF 3.5 mm ²	HVSF 3.5 mm ²
	AWG12	AWG12
Ground cable	HVSF 3.5 mm ²	HVSF 3.5 mm ²
	AWG12	AWG12
Motor cable	HVSF 3.5 mm ²	HVSF 3.5 mm ²
	AWG12	AWG12
Inrush current (Main power supply) (*1)	Max. 30 A	Max. 30 A
Inrush current (Control power supply) (*1)	Max. 48 A	Max. 48 A
Product weight	Approx. 5.2 kg	Approx. 5.2 kg
Dimensions	Size F	Size F

(*1) The current is the value calculated with the voltage as 400 V(or DC 24 V: Control power supply) when the product power input voltage is 400 V specification.