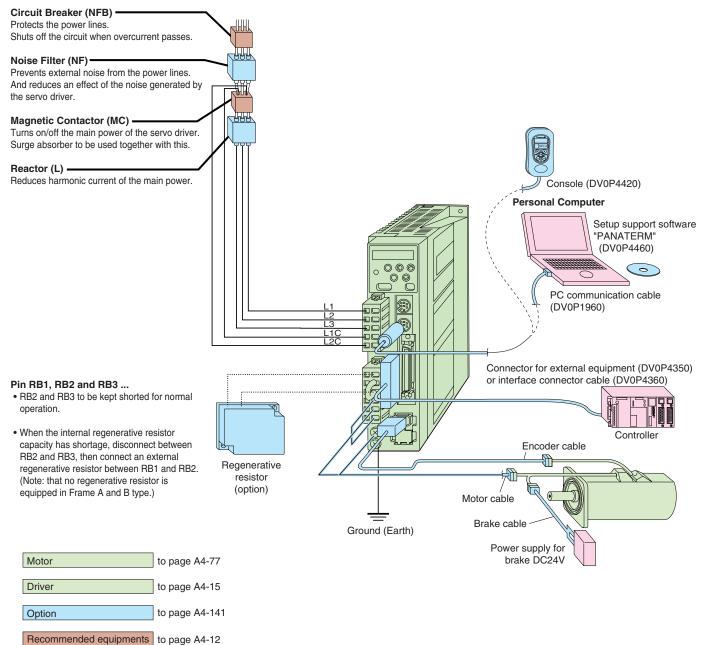
Wiring example

Driver Frame Type Symbol (Frame A, B, C, D)

For details, refer to the Instruction Manual.

• Wiring of main circuit

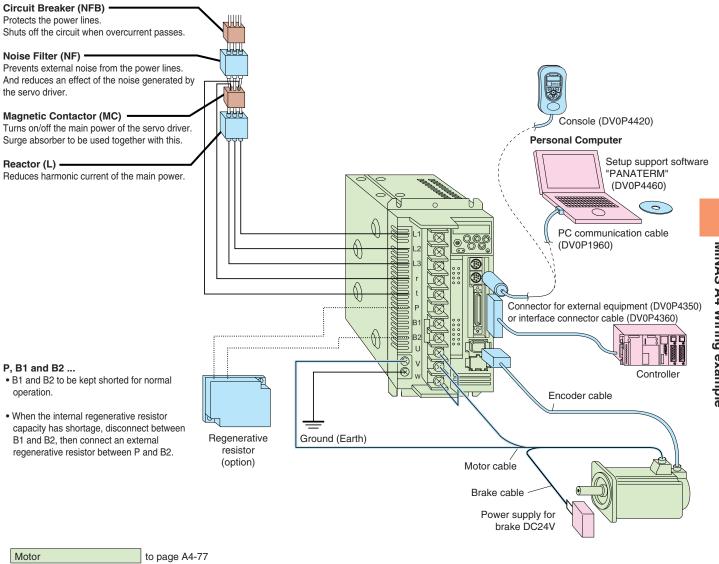
Parts customer to prepare

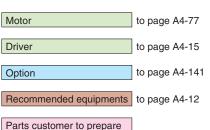


Driver Frame Type Symbol (Frame E, F)

For details, refer to the Instruction Manual.

Wiring of main circuit

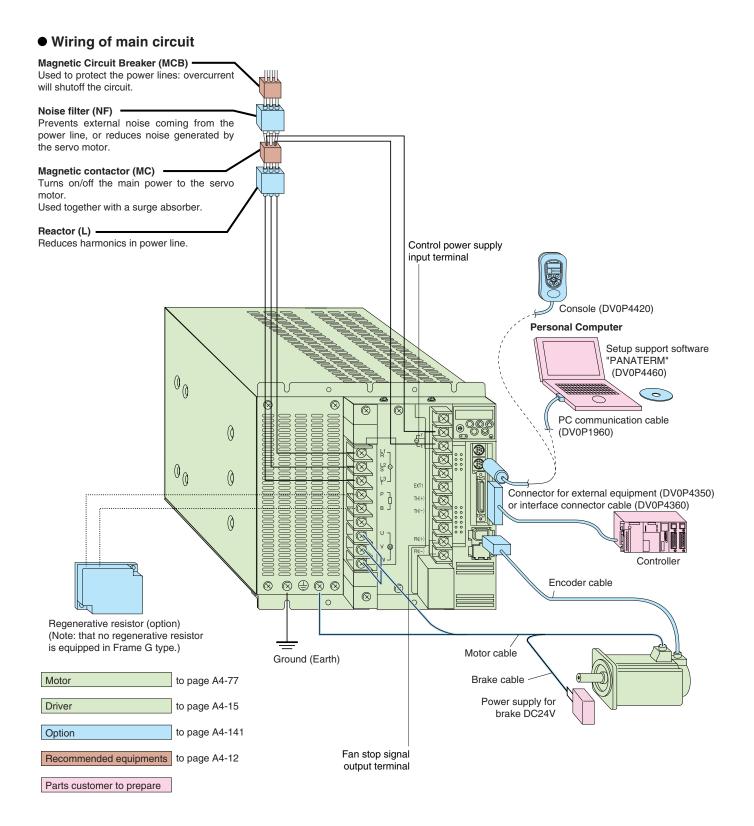




Wiring example

Driver Frame Type Symbol (Frame G)

For details, refer to the Instruction Manual.



MINAS A4 Wiring example

• List of recommended peripheral equipments

Power	Applicable motor		Power	Circuit	Noise	Surge	Noise	Magnetic	Cable	Cable	Connector				
supply voltage	Series	Output	capacity (atrated load)	breaker (rated current)	filter	absorber	filter (signal)	contactor (Contact)	diameter (Main circuit)	diameter (controlcircuit)	Connector				
Single phase, 100V	MSMD	50W	Approx. 0.4kVA	BBW2102 (10A)	DVOP4170	DVOP4190		BMFT61041N (3P+1a)	0.75mm² to 2.0mm² AWG14 to 18		Connection to exclusive connector				
	MSMD	100W	Approx. 0.4KVA												
	MQMA	200W	Approx. 0.5kVA												
		400W	Approx. 0.9kVA		DVOP4180			BMFT61541N (3P+1a)							
Single phase, 200V	MSMD	50W 100W	Approx. 0.5kVA		DVOP4170			BMFT61542N (3P+1a)							
	MAMA MQMA	100W	Approx. 0.3kVA												
	MAMA MSMD MQMA	200W	Approx. 0.5kVA												
												MSMD MQMA	400W	Approx. 0.9kVA	
												Single/ 3-phase, 200V	MAMA MFMA	400W	Approx. 0.9kVA
	MHMA	500W	Approx. 1.1kVA										BBW3152 (15A) -		
MSMD	50000	Approx. 1.3kVA													
MAMA	750W	Approx. 1.6kVA													
MDMA		Approx. 1.8kVA	 DVOP4220		BMFT61842N (3P+1a)	2.0mm² AWG14									
MHMA	1.0kW			DVOP1460				0.75mm² AWG18							
MGMA	900W														
MSMA	1.0kW	-													
MSMA		Approx. 2.3kVA					BBW3202 (20A)								
MDMA	1.5kW														
MFMA															
MHMA															
3-phase, 200V	MSMA				(30A)		DVOP4220		BMF6352N (3P+2a2b)	29 11.9 11.9 11.0 1.0 1.0 1.0 1.0 1.0 1.0 1.					
	MDMA	2.0kW	Approx. 3.3kVA												
	MHMA														
	MFMA	2.5kW	Approx. 3.8kVA			3.5mm² AWG12									
	MGMA	2.0kW	Approx. 0.0KVA				DVOP3410								
	MSMA		Approx. 4.5kVA												
	MDMA	3.0kW													
	MHMA														
	MGMA														
	MSMA	4 01444	0.013/4						BMF6652N (3P+2a2b)						
	MDMA	4.0kW	Approx. 6.0kVA		(50A)										
	MHMA										-				
	MFMA	4.5kW	Approx. 6.8kVA			5.3mm ² AWG10 L1, L2, L3 5.3mm ² AWG10 U, V, W 14mm ² AWG6									
	MGMA		Approx. 7.5kVA												
	MSMA MDMA														
	MHMA														
	MGMA	6.0kW	Approx. 9.0kVA												
	MDMA				BBW360S (60A)										
	MHMA	7.5kW	Approx. 11kVA												

•Select a single and 3-phase common specifications corresponding to the power supplies.

•Listed circuit breaker and magnetic contactor are manufactured by Panasonic Electric Works.

To conform to EC Directives, install a circuit breaker which conforms to IEC and UL Standards (Listed, 🖲 marked) between noise filter and power supply without fail.

For details of noise filter, refer to Page A4-138.

<Remarks>

• Select a circuit breaker and noise filter which match to the capacity of power supply (including a load condition).

• Terminal block and earth terminals

·Use a copper conductor cables with temperature rating of 60°C or higher.

- •Earth terminals for Frame A to D are M4 and M5 for Frame E to G.
- •Larger tightening toque for screws than the max.value (M4 : 1.2 N·m, M5 : 2.0 N·m) may damage the terminal block.
- •Mounting screws on the cover of terminal block for frames E to G and screw on acrylic cover of terminal block for frame G should be tightened with 0.2 N·m torque.
- Application of torque larger than 0.2 N·m may damage the thread on the driver.

• Use an earth cable with the same diameter as that of the main circuit cable.

If the diameter of the main circuit cable is 1.6mm² or less, use an earth cable with a diameter of 1.6mm² (AWG14).

• Use the attached exclusive connector for A to D-frame, and maintain the peeled off length of 8 tot 9mm.

• Tighten the screws of the connector, CN X5 for the host controller with the torque of 0.3 to 0.35 N m.

•Larger torque than 0.35N·m may damage the connector at the driver side.

<Caution>

Do not turn on power without first positively tightening all terminal block screws, otherwise, loose contacts may generate heat (smoking, firing).