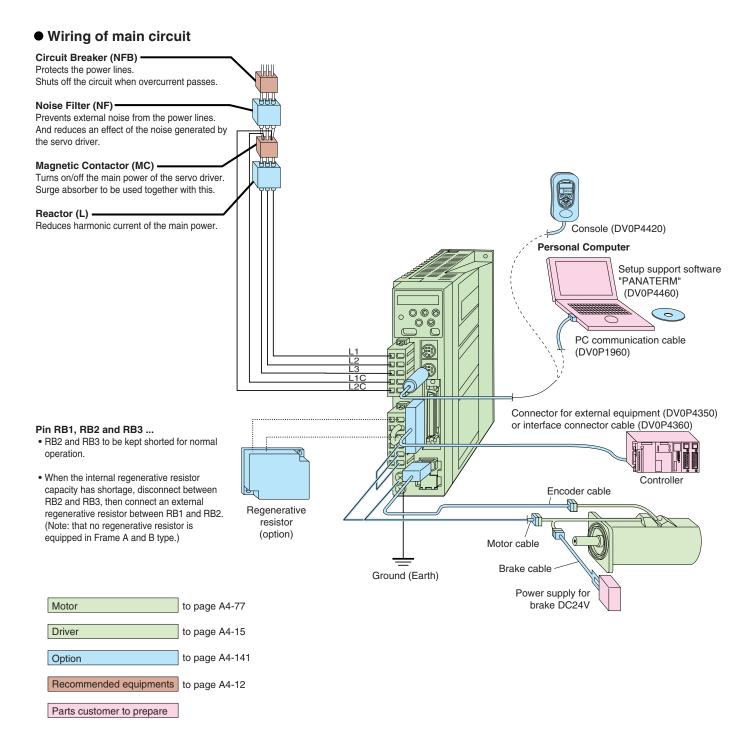
## Wiring example

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

For details, refer to the Instruction Manual.



## **Driver Frame Type Symbol (Frame E, F)**

For details, refer to the Instruction Manual.

Driver

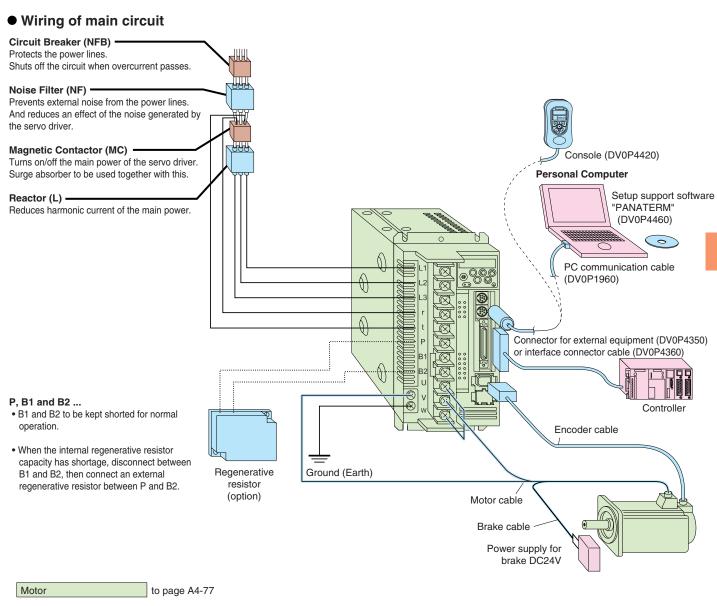
Option

to page A4-15

to page A4-141

Recommended equipments to page A4-12

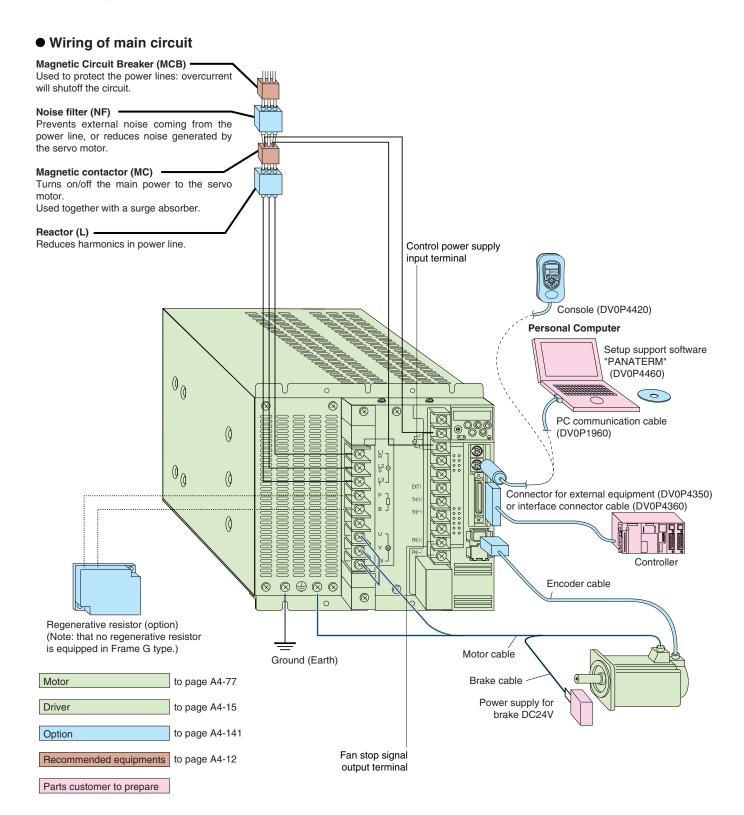
Parts customer to prepare



# 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	Appl	icable otor	Power	Circuit breaker (rated current)	Noise filter	Surge absorber	Noise	Magnetic	Cable	Cable diameter (controlcircuit)	Connector
supply voltage	Series	Output	capacity (atrated load)				filter (signal)	contactor (Contact)	diameter (Main circuit)		
Single phase, 100V	MSMD	D 50W	Approx. 0.4kVA		DVOP4170	DVOP4190		BMFT61041N (3P+1a)	0.75mm² to 2.0mm² AWG14 to 18	0.75mm² AWG18	Connection to exclusive connector
	MSMD MQMA	100W									
		200W	Approx. 0.5kVA		D) (0 D ( ) 0 D			BMFT61541N			
		400W	Approx. 0.9kVA		DVOP4180			BMFT61541N (3P+1a)			
Single phase, 200V	MSMD	100W	Approx. 0.5kVA	BBW2102 (10A)	DVOP4170			BMFT61542N (3P+1a)			
	MAMA										
	MQMA 1	100W	Approx. 0.3kVA								
	MAMA										
	MSMD	200W	Approx. 0.5kVA								
	MQMA										
	MSMD	400144					DVOP1460				
	MQMA	400W	Approx. 0.9kVA								
Single/ 3-phase, 200V	MAMA	400144	0.011/4	BBW3152 (15A) BBW3202 (20A)	DVOP4180	DVOP1450					
	MFMA	400W	Approx. 0.9kVA								
	MHMA	500W	Approx. 1.1kVA								
	MSMD	750W	Approx. 1.3kVA								
	MAMA	73011	Approx. 1.6kVA		DVOP4220			BMFT61842N (3P+1a)	2.0mm² AWG14		
	MDMA	1.0kW									
	MHMA		Approx. 1.8kVA								
	MGMA	900W									
	MSMA MSMA	1.0kW									
	MDMA	MA 1 5kW	Approx. 2.3kVA								
	MFMA										
	MHMA										
3-phase, 200V	MSMA		Approx. 3.3kVA	BBW3302 (30A)	DVOP4220			BMF6352N (3P+2a2b)			95.3.
	MDMA	MA 2.0kW									
	MHMA										
	MFMA	2.5kW	2 01/1/4		DVOP3410						
	MGMA	2.0kW	Approx. 3.8kVA						3.5mm² AWG12		
	MSMA		Approx. 4.5kVA								
	MDMA	3.0kW		BBW350S (50A)							
	MHMA										
	MGMA										
	MSMA MDMA	4.0kW	Approx. 6.0kVA					BMF6652N (3P+2a2b)			
	MHMA										
	MFMA		Approx. 6.8kVA								
	MGMA	4.5kW	pp.ox. 0.01(1/1	1					5.3mm <sup>2</sup> AWG10 L1, L2, L3 5.3mm <sup>2</sup> AWG10 U, V, W 14mm <sup>2</sup> AWG6		
	MSMA		Approx. 7.5kVA								
	MDMA	5.0kW									
	MHMA										
	MGMA	6.0kW	Approx. 9.0kVA	BBW360S (60A)							
	MDMA	7.5kW	Approx. 11kVA								
	MHMA		Applox. I I K V A								

- 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, (1) 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
- $\cdot$ 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).