

Chapter 4 Wiring

4-1 Wiring

4-2 System Wiring Diagram

After removing the front cover, please check if the power and control terminals are clearly visible. Please read following precautions to avoid wiring mistakes.



- ☑ It is crucial to **cut off the AC motor drive power** before doing any wiring. A charge may still remain in the DC bus capacitors with hazardous voltages even after the power has been turned off a short time. Therefore it is suggested to measure the remaining voltage with a DC voltmeter on +1/DC+ and DC- before doing any wiring. For your personnel safety, please do not start wiring before the voltage drops to a safe level < 25 Vdc. Wiring the installation with a remaining voltage condition may cause injuries, sparks and short circuits.
- ☑ Only qualified personnel familiar with AC motor drives is allowed to perform installation, wiring and commissioning. Make sure the power is turned off before wiring to prevent electric shocks.
- ☑ The terminals R/L1、S/L2、T/L3 are for mains power input. If mains power is wrongly connected to other terminals, it may result in damage to the equipment. The voltage and current should lie within the range as indicated on the nameplate (see Chapter 1-1).
- ☑ All units must be grounded directly to a common ground terminal to prevent electrical shocks or damage by lightning.
- ☑ Please make sure to tighten the screw of the main circuit terminals to prevent sparks due to the loosening of vibrations.



- ☑ When wiring, please choose the wires with specification that complies with local regulations for your personal safety.
- ☑ Check following items after finishing the wiring:
 1. Are all connections correct?
 2. Any loose wires?
 3. Any short-circuits between the terminals or to ground?

4-1 Wiring

It provides 1-phase / 3-phase power

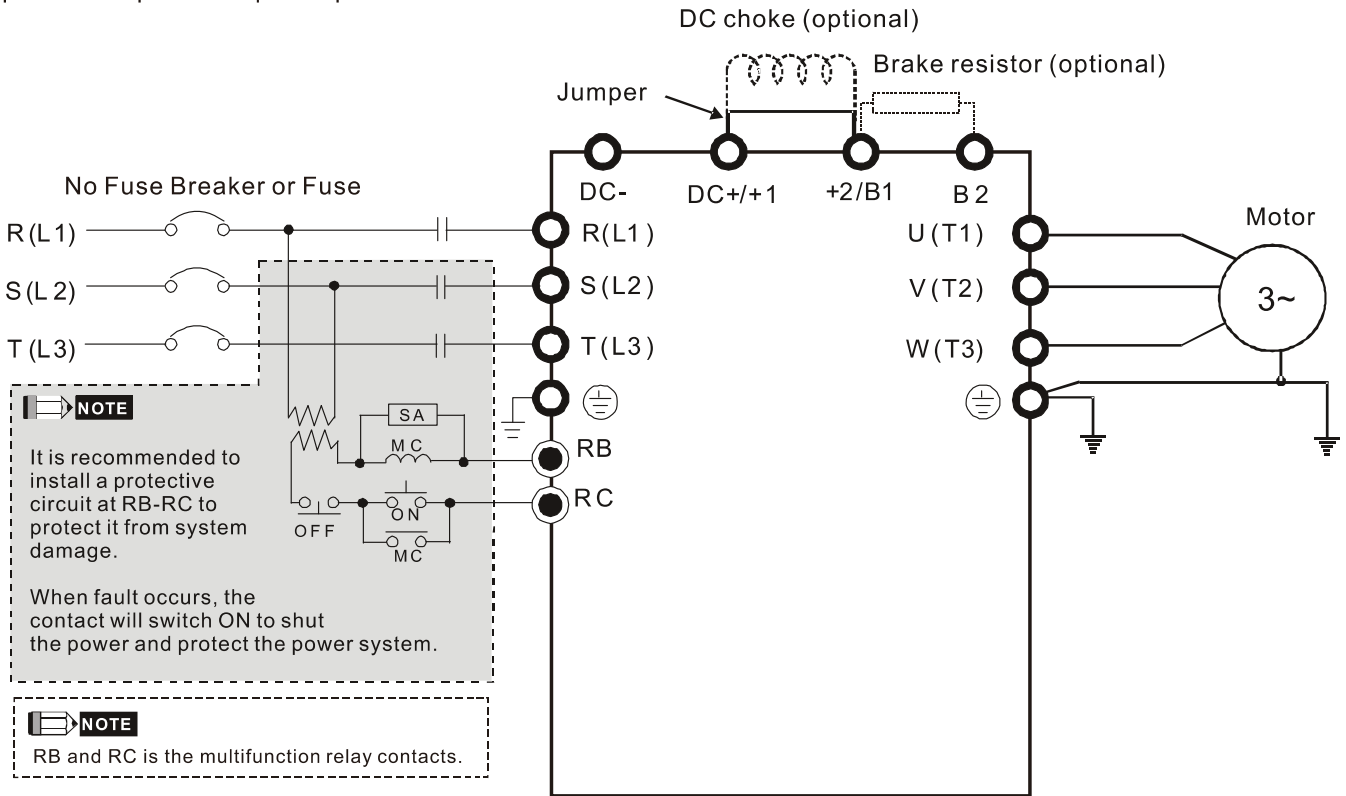


Figure 1

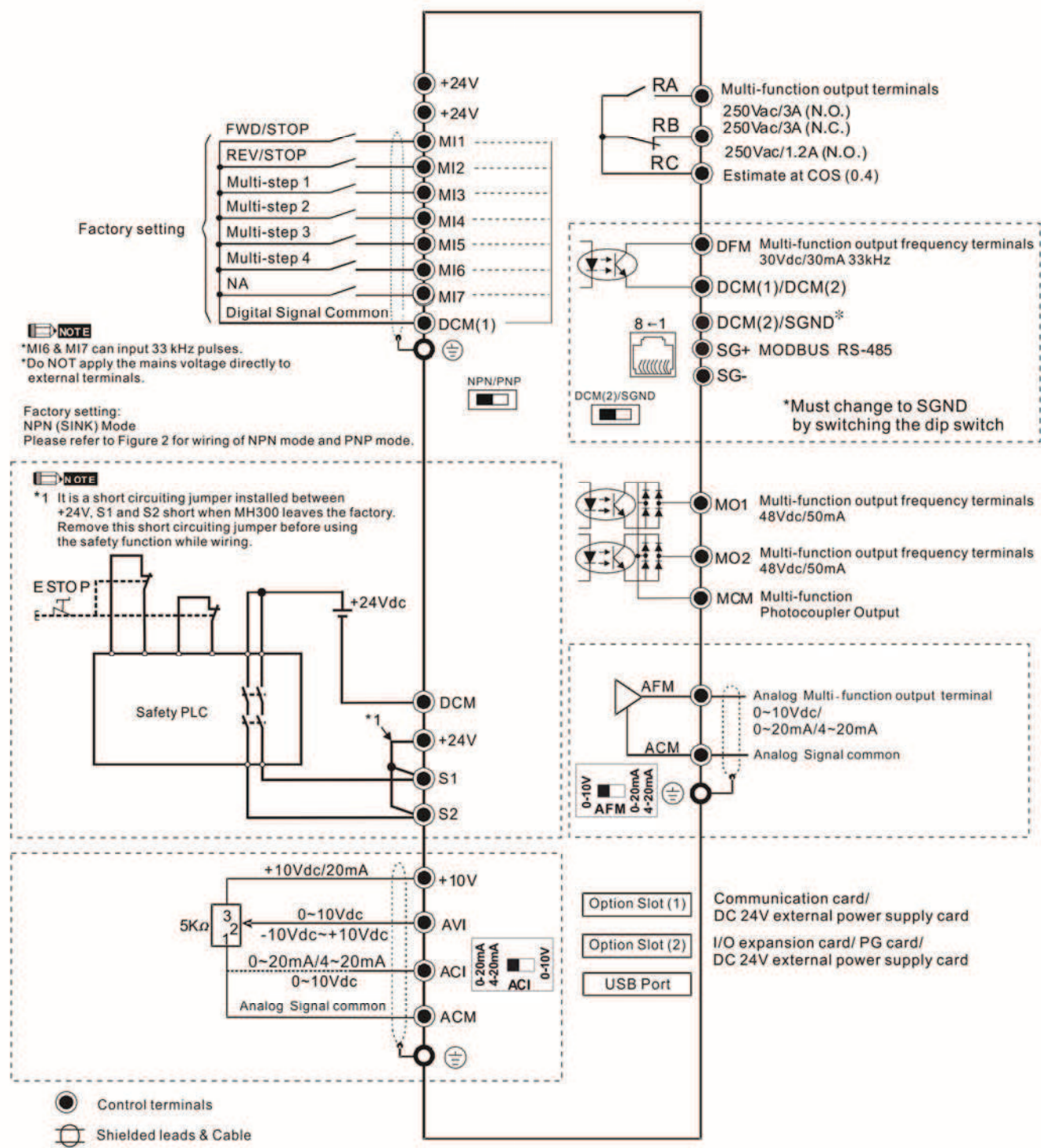
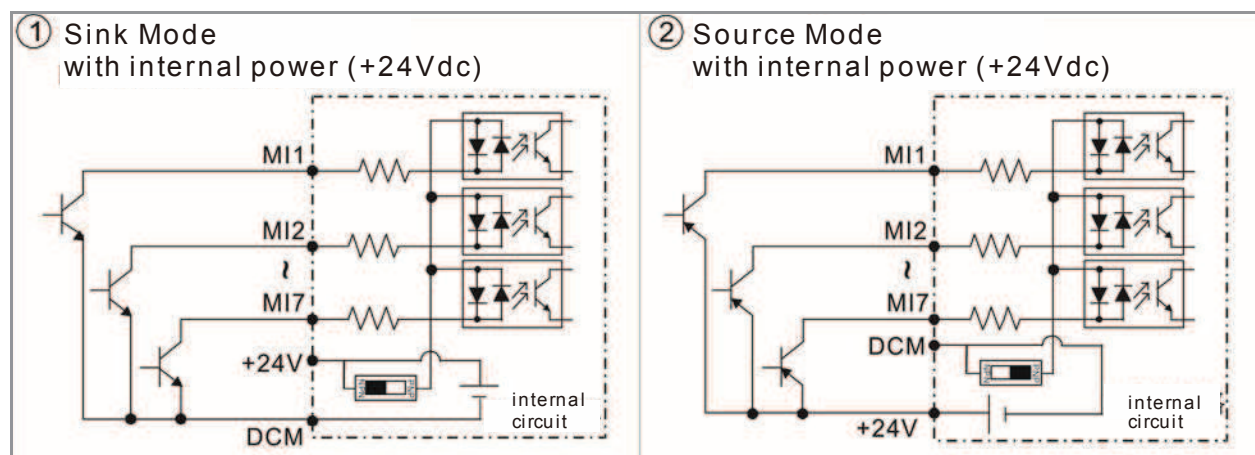


Figure 2

SINK (NPN) / SOURCE (PNP) Mode



4-2 System Wiring Diagram

