

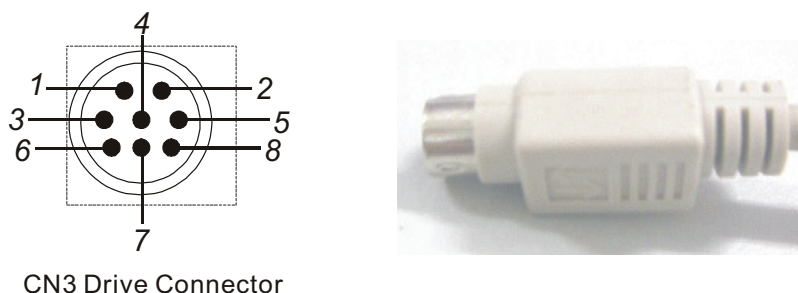
## 3.5 Serial Communication Connector CN3

### 3.5.1 CN3 Terminal Layout and Identification

The servo drive can be connected to a PC or controller via a serial communication connector. The users can operate the servo drive through PC software supplied by Delta (contact to the dealer/distributor).

The communication connector/port of Delta servo drive can provide two common serial communication interfaces: RS-232, and RS-485 connection. RS-232 is mostly be used but is somewhat limited. The maximum cable length for an RS-232 connection is 15 meters (50 feet). Using RS-485 interface can allow longer distance for transmission and support multiple drives to be connected simultaneously.

**Figure 3.9 The layout of CN3 Drive Connector:**



**CN3 Terminal Signal Identification**

Pin No	Signal Name	Terminal Identification	Description
1	RS-485-	RS-485-	For data transmission of the servo drive. Connected to the RS-485- interface of PC.
2	Signal power	+5VD	
3	RS-485+	RS-485+	For data transmission of the servo drive. Connected to the RS-485+ interface of PC.
4	RS-232 data receiving	RS-232-RX	For data receiving of the servo drive. Connected to the RS-232 interface of PC.
5	RS-232 data transmission	RS-232-TX	For data transmission of the servo drive. Connected to the RS-232 interface of PC. Please refer to section 3.5.2.
6	RS-232 / RS-485 data format selection	SEL232 / 485	RS-232 & RS-485 data format selection For RS-485 connection, connect SEL232/485(Pin6) to GND(Pin8). For RS-232 connection, do not connect SEL232/485(Pin6) to GND(Pin8).
7	Re-flash selection	Boot_Load	Boot_Load terminal for DSP Reflash burn-in selection ( <b>Do not connect this terminal</b> ).
8	Grounding	GND	

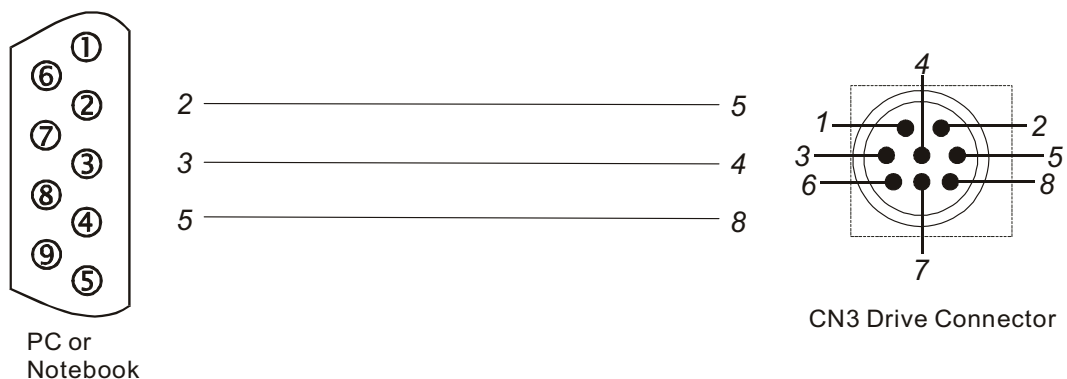
#### NOTE

- 1) In order to avoid the communication error, if the users use their own communication connector, ensure the circuit between the connector case and all pins is not closed.

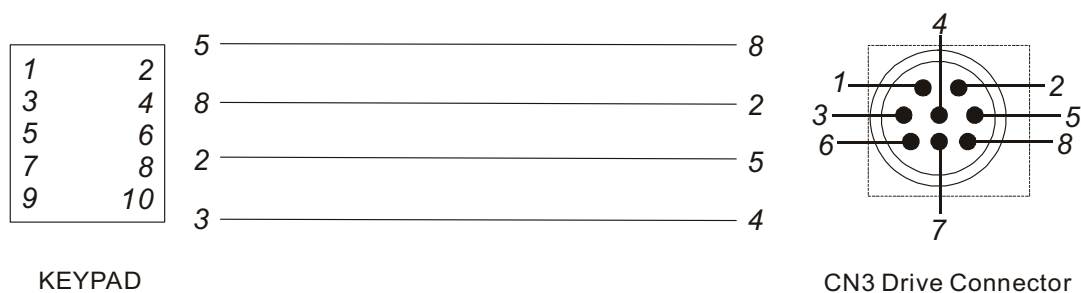
- 2) When using RS-232 communication, the user can use the communication cable provided by Delta PLC directly. (The PLC communication cable is compatible with all Delta Servo systems for the users' convenience)

### 3.5.2 Connection between PC/Keypad and Connector CN3

#### ■ Connection between PC and CN3

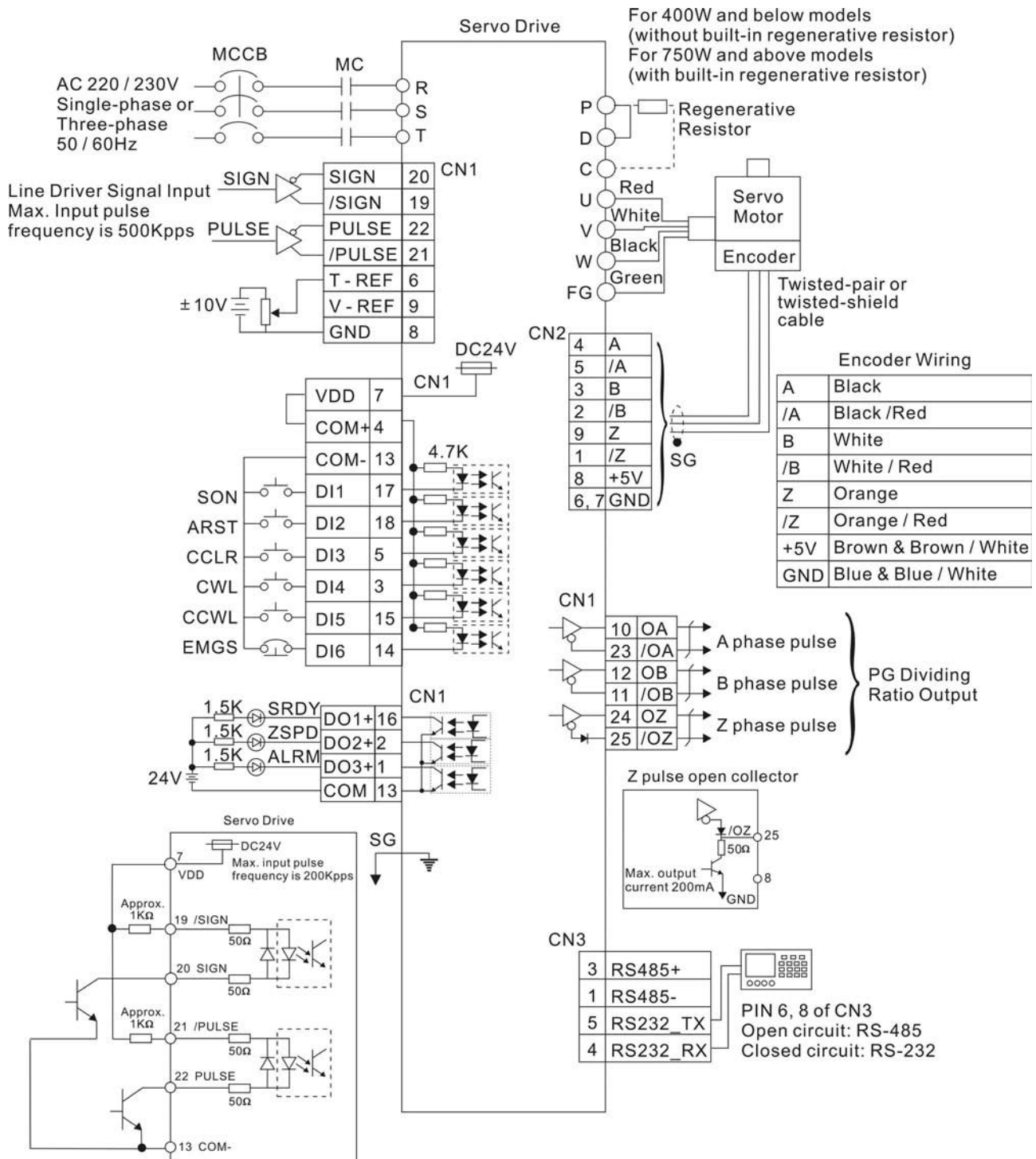


#### ■ Connection between Keypad and CN3

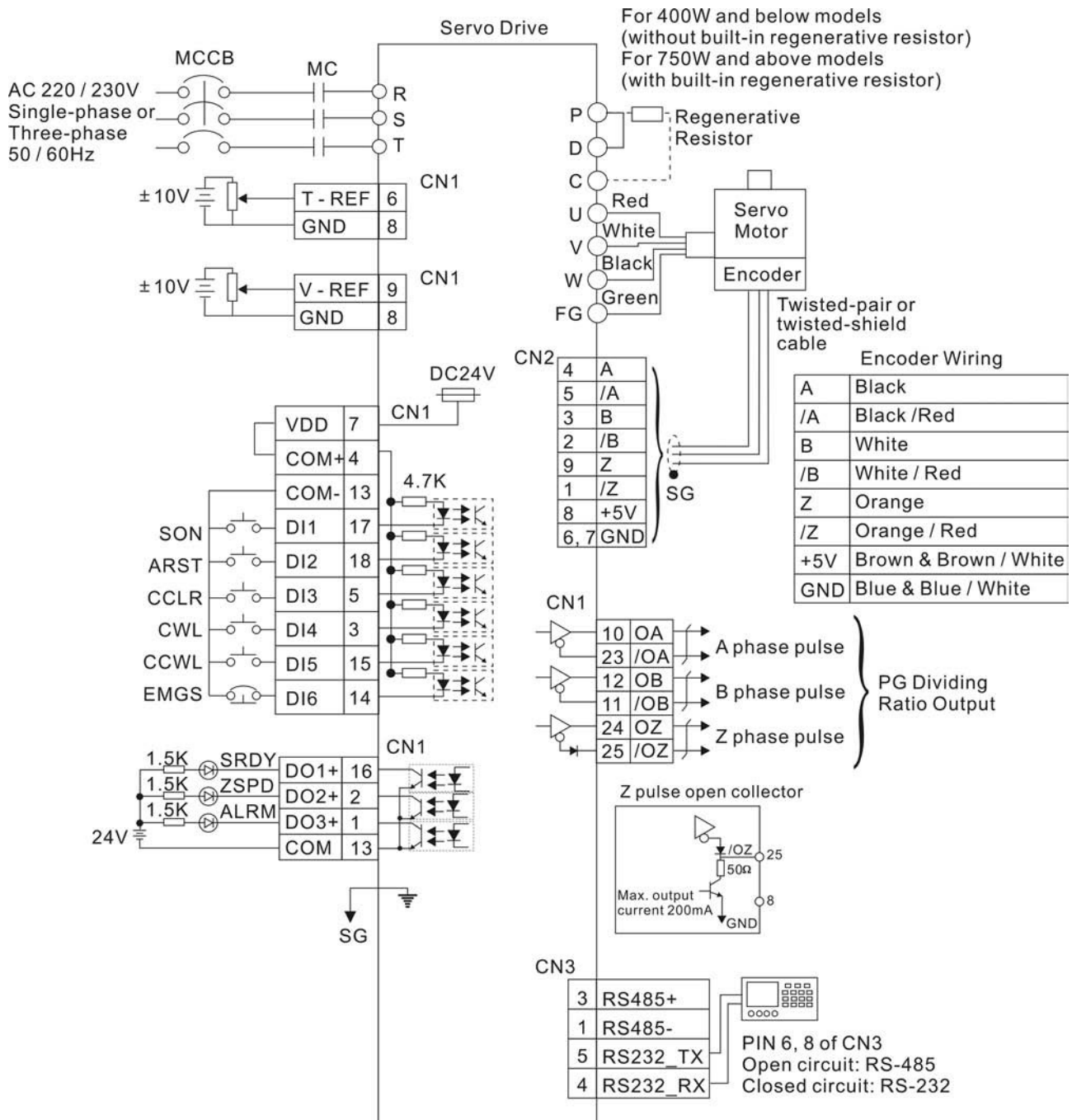


## 3.6 Standard Connection Example

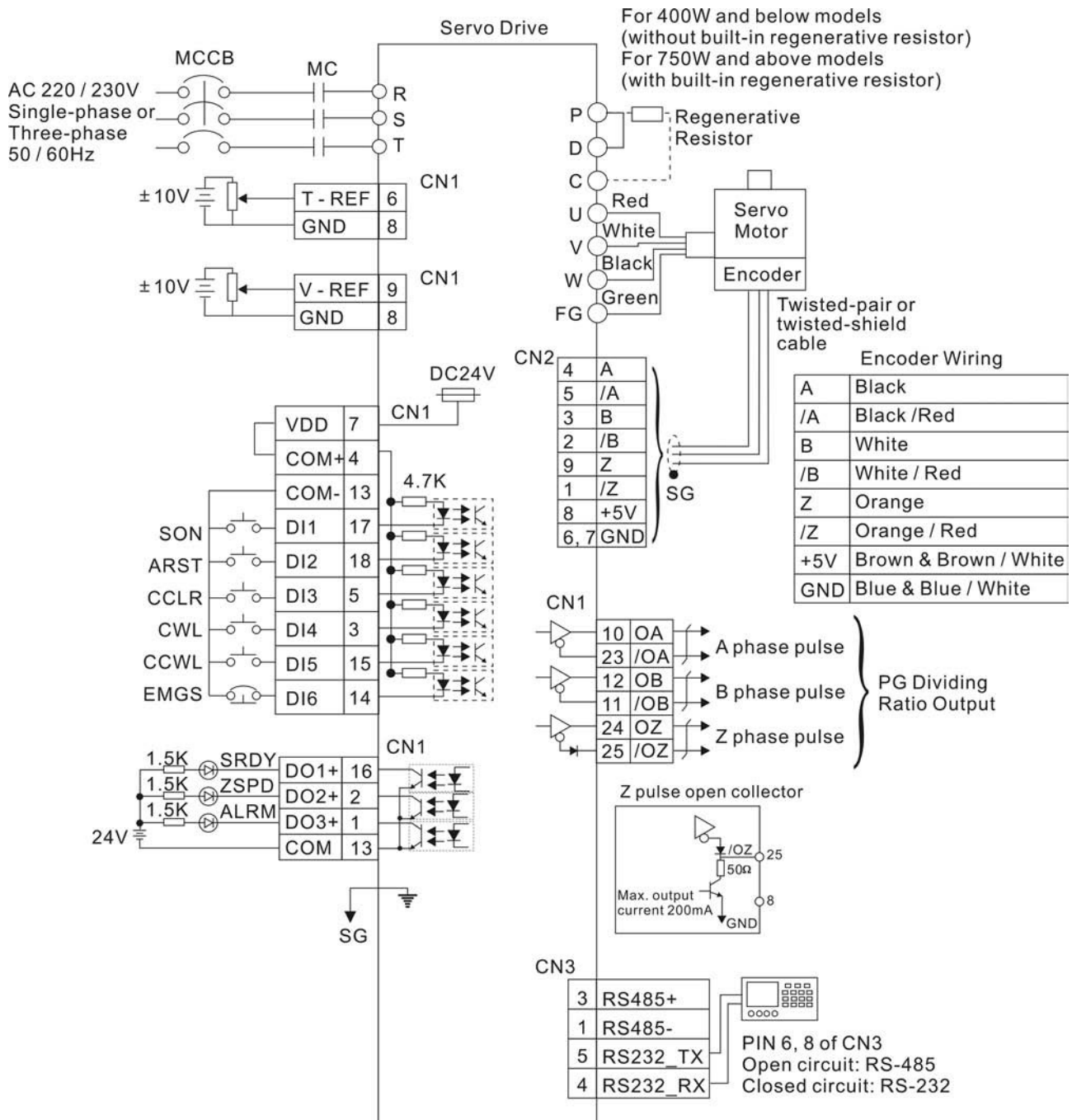
### 3.6.1 Position Control Mode



### 3.6.2 Speed Control Mode



### 3.6.3 Torque Control Mode



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