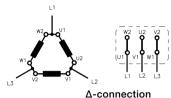
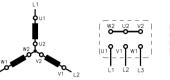
4.12 Connection diagrams

Connection of three phases, single speed motors





Y connection



Figure 4.6 Connection of three-phase single-speed motors

Connection of two-speed motors

Two-speed motors are normally connected as illustrated below; direction of rotation is discussed in the Standards chapter. Motors of normal design have six terminals and one earth terminal in the terminal box. Motors with two separate windings are normally Δ - Δ connected. They can also be Y/Y, Y/ Δ or Δ /Y connected. Motors with one winding, Dahlander-connection, are connected Δ /YY when designed for constant torque drives. For a fan drive, the connection is Y/YY.

A connection diagram is supplied with every motor.

When starting a motor using $\Upsilon \Delta$ connection, always refer to the connection diagram supplied by the starter manufacturer.

1. Two separate windings Y/Y	Li Li QIU QU IV 2W Li Zi Low speed High speed	ເບັເຊັເລ ເບັເຊັເລ ເພງເຊາເຊັນຊີວາດ ເບັເຊັນຊີນ ເບັເຊັນຊີ ເບັເຊັນຊີ Low speed High speed
2. Two separate windings Δ/Δ		20 27 2wg 1 12 2wg 1 12 2wg
	$\begin{array}{c c} 1w & 2w \\ \hline 13 & 12 \\ Low speed \\ \hline High speed \\ \end{array}$	່ານປັນຊີນດີບໍ່ເນີດຂໍ້ແນ່ ເປັນຂັ້ນ3 Low speed High speed
3. Dahlander-connection Δ/ΥΥ	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Constant torque drive
4. Dahlander-connection Y/YY	Low speed High speed	Fandroe Fandroe 1 12 13 10 20 30 ado 20 200 10 10 10 10 10

Figure 4.7 Connection options for two-speed motors