phase winding **2 83** and third phase winding **2 85**, respectively. First phase winding **1 80** is connected to third phase winding **2 85**, first phase winding **2 81** is connected to second phase winding **1 82**, and second phase winding **2 83** is connected to third phase winding **1 84** as shown in FIG. **9**B in order to achieve the high voltage, delta connection configuration.

[0094] Referring to FIG. **9**C, one embodiment of a nine-terminal three-phase grid-connected induction machine connected in a delta configuration with the windings connected to operate at a low voltage is shown. In this embodiment, first phase supply line **40**, second phase supply line **41** and third phase supply line **42** supply alternating current to the induction machine. First phase winding **1 80** and first phase winding **2 81** are connected in parallel between first phase supply line **40** and second phase supply line **41**, second phase winding **1 82** and second phase winding **2 83** are connected in parallel between second phase supply line **41** and third phase supply line **42** and third phase winding **1 84** and third phase winding **2 85** are connected in parallel between third phase supply line **42** and first phase supply line **40** as shown in FIG. **9**C in order to achieve the low voltage, delta connection configuration.

[0095] Referring to FIGS. **7**A and **10**A, floating three-phase inverter **60** can be connected to a three-phase grid-connected induction machine connected in an open winding configuration as shown in FIG. **10**A such that the power factor of the induction machine can be controlled by floating three-phase inverter **60**.

[0096] Referring to FIGS. **7**A and **10**B, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in an open winding configuration as shown in FIG. **10**B such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0097] Referring to FIGS. **7**A and **10**C, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in an open winding configuration as shown in FIG. **10**C such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0098] Referring to FIGS. **7**B and **11**A, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in a wye configuration as shown in FIG. **11**A such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0099] Referring to FIGS. **7**B and **11** B, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in a wye configuration as shown in FIG. **11**B such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0100] Referring to FIGS. **7**C and **12**A, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in a delta configuration as shown in FIG. **12**A such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0101] Referring to FIGS. **7**C and **12**B, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in a delta configuration as shown in FIG. **12**B such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0102] Referring to FIGS. **7**C and **12**C, floating H-bridges **20** can be connected to a three-phase grid-connected induction machine connected in a delta configuration as shown in FIG. **12**C such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0103] Referring to FIGS. **8**A, **8**B, **13**A and **13**B, floating H-bridges **20** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a wye configuration with the windings connected to operate at a high voltage as shown in FIGS. **13**A and **13**B such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0104] Referring to FIGS. **8**C and **13**C, floating H-bridges **20** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a wye configuration with the windings connected to operate at a low voltage as shown in FIG. **13**C such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0105] Referring to FIGS. **8**C and **13**D, floating three-phase inverters **60** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a wye configuration with the windings connected to operate at a low voltage as shown in FIG. **13**D such that the power factor of the induction machine can be controlled by floating three-phase inverters **60**.

[0106] Referring to FIGS. **9**A, **9**B, **14**A and **14**B, floating H-bridges **20** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a delta configuration with the windings connected to operate at a high voltage as shown in FIGS. **14**A and **14**B such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0107] Referring to FIGS. **9**A, **9**B and **14**C, floating three-phase inverters **60** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a delta configuration with the windings connected to operate at a high voltage as shown in FIG. **14**C such that the power factor of the induction machine can be controlled by floating three-phase inverters **60**.

[0108] Referring to FIGS. **9**C, **14**D and **14**E, floating H-bridges **20** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a delta configuration with the windings connected to operate at a low voltage as shown in FIGS. **14**D and **14**E such that the power factor of the induction machine can be controlled by floating H-bridges **20**.

[0109] Referring to FIGS. **9**C and **14**F, floating three-phase inverters **60** can be connected to a nine-terminal three-phase grid-connected induction machine connected in a delta configuration with the windings connected to operate at a low voltage as shown in FIG. **14**F such that the power factor of the induction machine can be controlled by floating three-phase inverters **60**.

[0110] Additional details on the embodiments described above are provided in the attached Appendices "A" and "B". The references listed in each of the attached Appendices A and B are hereby incorporated into this application by reference in their entirety.

[0111] Although a few embodiments have been shown and described, it will be appreciated by those skilled in the art that various changes and modifications can be made to these embodiments without changing or departing from their scope, intent or functionality. The terms and expressions used in the preceding specification have been used herein as terms of description and not of limitation, and there is no intention in the use of such terms and expressions of excluding equivalents of the features shown and described or portions thereof,