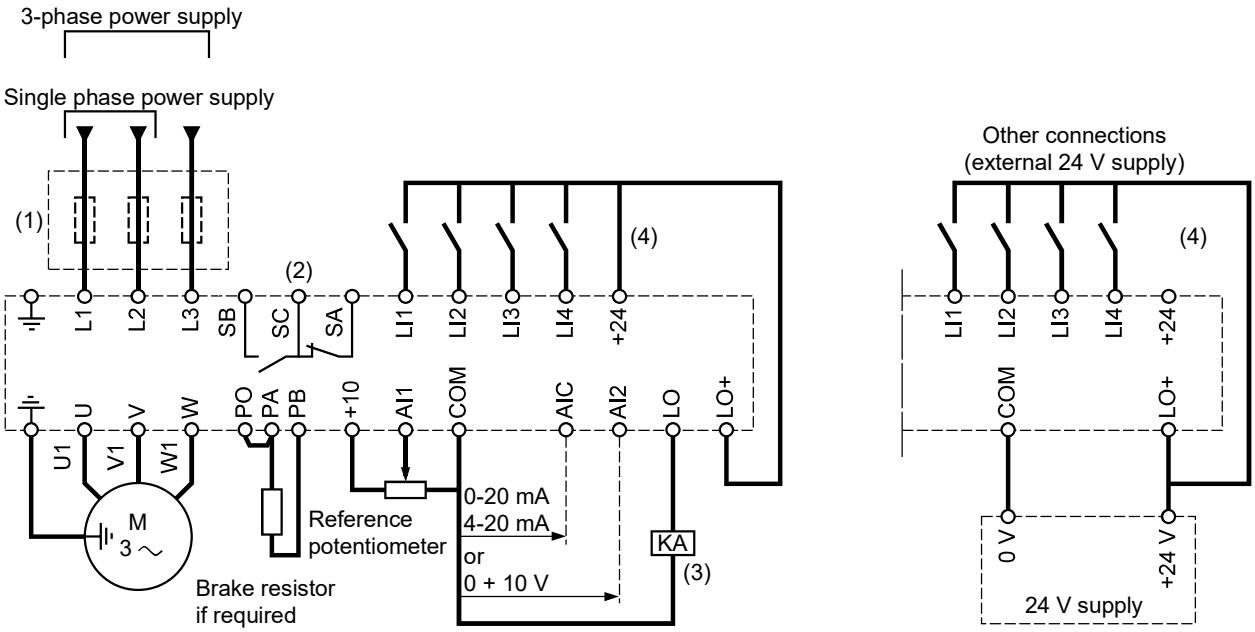
Connection diagram

Connection diagram with factory preset values



(1) Line choke if required (1 phase or 3 phases).
(2) Fault relay contacts, for remote signalling of the speed controller state.
(3) PLC relay or input ⎓ 24 V.
(4) + 24 V internal. When using a + 24 V external supply, connect the 0 V to the COM terminal, and do not use the + 24 terminal of the speed controller.

Note : Suppressors should be fitted to all inductive circuits close to the speed controller or connected on the same circuit (relays, contactors, solenoid valves, etc).

Choice of associated components

See Altivar 18 catalog.

Wiring recommendations

Power

Follow the cable cross-section recommendations specified in the standards.

The speed controller must be earthed, in order to comply with regulations concerning high leakage currents (over 3.5 mA). Upstream protection by differential circuit-breaker is not advised as DC elements may be generated by leakage currents from the speed controller. If the installation has several speed controllers on the same supply, connect each speed controller to earth separately. If necessary, provide a line choke (consult the catalogue).

Keep the power cables apart from low-level signal circuits (detectors, PLCs, measuring equipment, video, telephone).

Control

Keep the control circuits and the power cables apart. For control circuits and speed reference circuits, it is advisable to use a shielded, twisted pair cable at intervals of between 25 and 50 mm by connecting the shielding at each end.