

To select a starting relay for single phase motor RSIR type (resistance start, induction run motor) or CSIR type (capacitor start, induction run motor) make the following tests:

A – DROP OUT CURRENT (DO)

(This is the value of current at which the relay must open the contacts)

1. Both main and start windings in the circuit.
2. Motor at maximum supply voltage.
3. Read the current of the main winding at 80% of the maximum torque.
4. Read the current of the main winding at the maximum torque (about 80% of the synchronous speed)

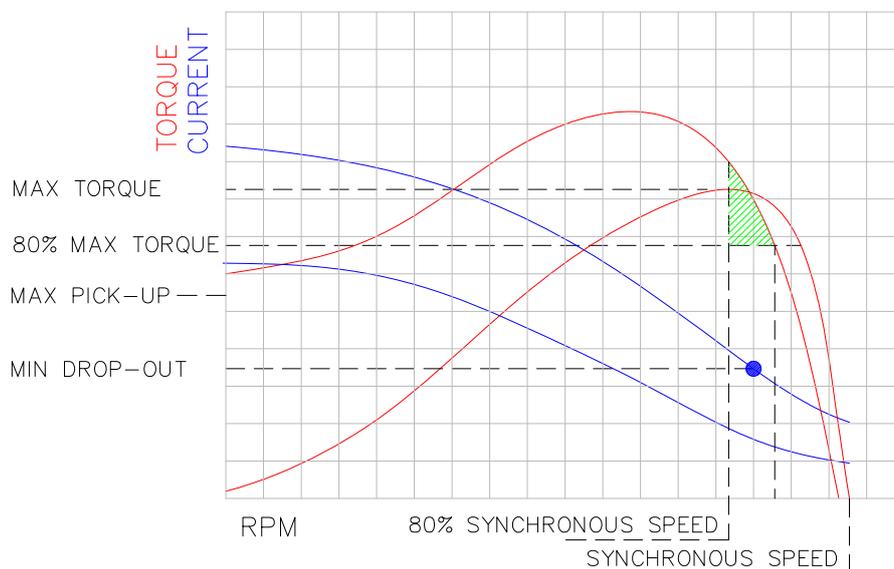
B – PICK UP CURRENT (PU)

(This is the value of current at which the relay must close the contacts)

1. Start winding disconnected.
2. Motor at minimum supply voltage.
3. Read the Locked Rotor Current of the main winding when this is hot: winding temperature should correspond to motor thermal class.

The start relay should have the maximum Pick Up lower than B3 value and the minimum Drop Out between A3 and A4 values.

A wide range of values of maximum Pick-up and minimum Drop-out is available on the catalogue which allows to optimise the choice.



The application must be tested in all field conditions before approving the chosen relay.