

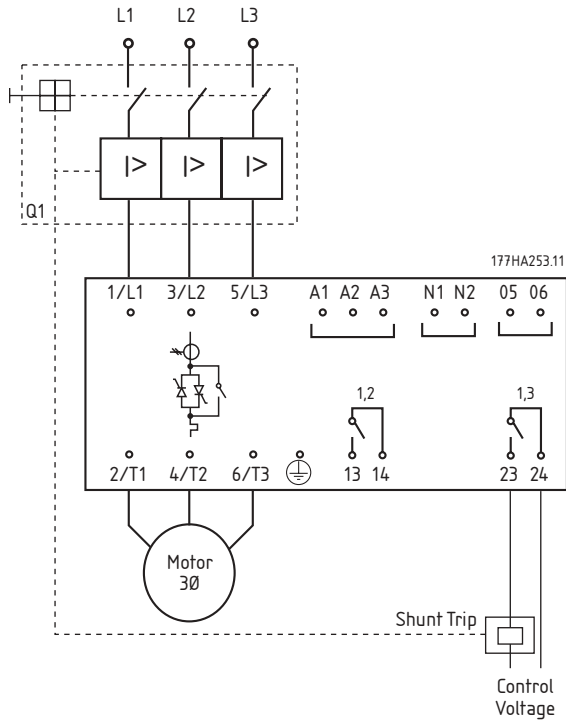
### ■ MCD 202

#### ■ MCD 202 Range

MCD 202 soft starters provide Current Limit control, TVR soft stop and include a range of motor protection features.

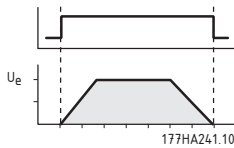
#### ■ Electrical Schematic

Example 1 – MCD 202 installed with system protection circuit breaker complete with shunt trip device.



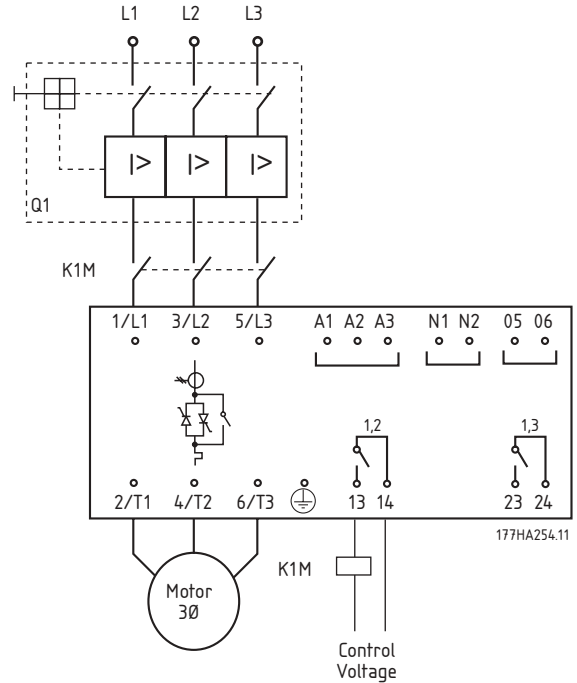
1 6 A @ 30 VDC resistive / 2 A 400 VAC AC11

2 Main Contactor

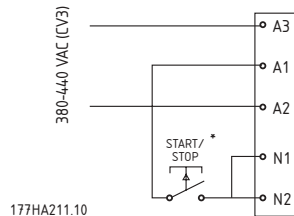
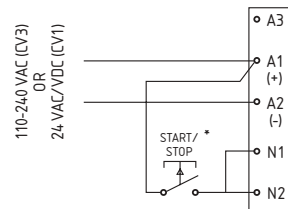


3 Auxiliary Relay Function = Trip (see parameter 8)

Example 2 – MCD 202 installed with system protection circuit breaker and line contactor.

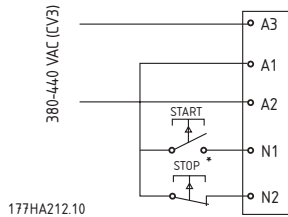
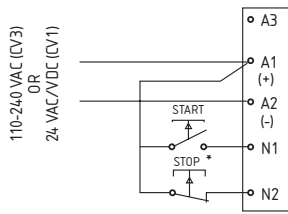


#### ■ Control Circuits 2 Wire Control



\* Also resets the MCD 202

### 3 Wire Control



177HA212.10

\* Also resets the MCD 202

### 2 Current Limit

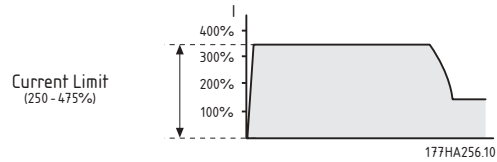
#### Value:

250% - 475% Motor FLC

★ 350%

#### Description of choice:

The current limit should be set so that the motor accelerates easily to full speed.

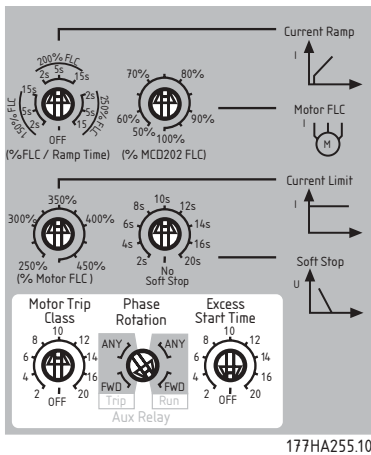


#### NBI:

Start current must be great enough to allow the motor to produce sufficient torque to accelerate the connected load. The minimum current required to do this is dependent on motor design and load torque requirements.

### Functionality

#### User Adjustments



### 1 Motor FLC

#### Value:

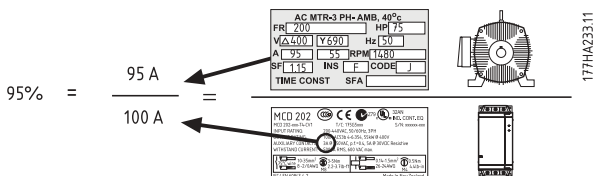
50% - 100% MCD 202 FLC

★ 100%

#### Function:

Calibrates the MCD 202 for the Full Load Current of the motor.

#### Description of choice:



### Fault Finding

Ready LED	Description
● x 1	Power Circuit Fault: Check mains supply L1, L2 & L3, motor circuit T1, T2 & T3 and soft starter SCRs.
● x 2	Excess Start Time: Check load, increase start current or adjust Excess Start Time setting.
● x 3	Motor Overload: Allow motor to cool, reset soft starter and restart. (MCD 202 cannot be reset until motor has cooled adequately).
● x 4	Motor Thermistor: Check motor ventilation and thermistor connection 05 & 06. Allow motor to cool.
● x 5	Phase Imbalance: Check line current L1, L2 & L3.
● x 6	Supply Frequency: Check supply frequency is in range
● x 7	Phase Rotation: Check for correct phase rotation.
● x 8	Network Comms Failure (between accessory module and network): Check network connections and settings.
● x 9	Starter Comms Failure (between starter and accessory module): Remove and refit accessory module.