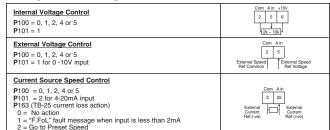
SM2/SM4 QUICK START GUIDE

Input Voltage/Motor Base Frequency Selection: Always check these parameters at first power up, set to a value based on mains voltage and Motor nameplate Base frequency.

P199 = "4" for motor nameplate base frequency = 50Hz
P107 = "0" for mains voltage = 120, 200, 400, 480 (VAC)
P107 = "0" for mains voltage = 120, 240, 480, 600 (VAC)
P107 = "1" (default) for mains voltage = 120, 240, 480, 600 (VAC)

Password: If "PASS" is displayed enter "225" and press "M" button.

Analog Control Wiring



Digital Input Logic Control Wiring

The digital inputs can be configured for positive logic or negative logic, by setting switch (ALsw) (see picture opposite)

P120 must also be set to match the configuration.

P120 = "1" (Negative logic/Active low/NPN)

P120 = "2" (Positive logic/Active High/PNP) (Default) (Incorrect setting will result in "F.AL" fault message)

TB-1 = Drive Start/Stop (note that P100 must be set to 1,4 or 5)
TB-13A = Configured using P121 (Default = 0 : No function)
TB-13B = Configured using P122 (Default = 0 : No function)
TB-13C = Configured using P123 (Default = 0 : No function)
10 = Rev rotation 11 = Start fwd
13 = Run fwd 14 = Run rev 15 = Jog fawf

17 = Accel/Decel 2

20 = Clear fault

22 = Inverse Ext fault (0 to 9-Please refer to operating instructions)



Relay Terminal Wiring

Relay contact state when: P140 = 0 (Always Open)

19 = Aux ramp to stop

16 = Joa rev

P140 = 1 (Closed = drive running)

P140 = 2 (Closed = drive running in reverse)

P140 = 3 (Open = drive tripped)

P140 = 4 (Closed = drive tripped)

P140 = 5 (Open = restart attempts failed if P110 =3 to 6)

P140 = 6 (Closed = output frequency =commanded frequency)

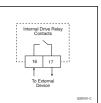
P140 = 7 (Closed = output frequency is >P136)

P140 = 8 (Closed = motor current = P171)

P140 = 9 (Closed = 4-20mA signal is below 2mA)

P140 = 10 (Closed = motor load is below P145)

P140 = 11 through to 22 (Please refer to operating instructions)





18 = DC brake

21 = Ext fault

SM2/SM4 QUICK START GUIDE

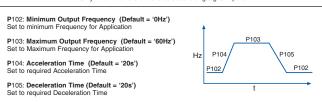
Parameter Settings:

```
P100: Start Control Source (Default = '0')
0 = Local keypad
```

0 = Local keypad : Run button on front of drive 1 = Terminal strip : Terminal strip start/stop circuit

P101: Standard reference source (Default = '0')

*Only if no Auto reference is selected using digital inputs



P108: Motor overload protection (Default '100%')

motor instability.

Calculate P108 = (motor rated current / SM2/4 output current rating) x

3 = Enhanced Variable V/Hz4 = Vector Speed Single motor applications requiring high starting torque and speed regulation
5 - Vector Torque Single motor applications requiring torque control independent

Vector speed and torque control setup (P300 = 4 or 5)

of speed

If P300 = 4 or 5, a motor auto-calibration must be carried out, ensure motor nameplate data is programmed first (detailed below), failure to do so will result in a F.n ld fault message.

P302 = Motor rated voltage P303 = Motor rated current P304 = Motor rated frequency P305 = Motor rated speed P306 = Motor Cosine Phi

Set P399 to 1 and provide a start command (see "start control source" above) to start the motor autocalibration, the display will show "CAL" for up to 40 sec's and then "StoP" once completed.

