

Delta VF-MD drive short manual for encoder model

Drive I/p connections: L1- PHASE, L2-NEUTRAL

Drive o/p connections: U, V, W TO MOTOR

Control terminals: DCM-door common signal

REV- door open signal

FWD-door close signal

Encoder terminals: VP-red wire, black-DCM, yellow-A, blue-B (put dip switch in +12v mode) .this switch near to VP terminal.

Door feedback signals: Door close limit signal-RC1 (com), RB1 (NC), RA1 (no), Door open limit signal-RC2 (com), RA2 (no)

Drive program:

User parameters:

0-17-30 %(vary depend on site) , 0-18-1

Basic parameters:

1-00-50.0, 1-01-50.0, 1-02-220volts,1-07-6.0

Motor and feedback parameters:

2-02-0.2(put first), 2-01-0.58, 2-04-6, 2-11-50, 2-12-1, 2-13-450, 2-14-50, 2-18-20

Motor auto tuning –put 0-12-0, then press run command for auto tuning.

After this check motor direction by press run command door should close .if direction reverse interchange two motor wires and repeat motor tuning again

Door open control parameters:

3-00 -6, 3-01-20, 3-02 -20, 3-03 -90, 3-04-6.0, 3-05-95, 3-06-4.0, 3-12-20,

3-17-999.9

Door close control parameters:

4-00 -18.0, 4-01-15.0, 4-02 -6.0, 4-03 -5.0, 4-04-4.0, 4-15-20, 4-22-999.9

Digital output parameters: 6-00-21, 6-01-22

Door width tuning process: 1.put door in half position ,after this enter parameter **0-12-0, 2-23-1** then give run command (in this time the door open and close completely) if tuning complete successfully ok .go to step3.

1. If you get AUE error immediately increase value slightly in **0-17** parameter
2. if you get AUE error after full open and close change the value in **2-12-1** or **2**
3. In door width tuning the door close completely first then open ,if the door not open you decrease the value slightly in **0-17** upto opening
4. If you get PGER error check the encoder direction this you change value **2-12-1** or **2**
5. Put **0-12-1**, Check door operation by door open and close signals.

Note: how to calculate 0-17 parameter value depends on site

0-17= 100xsite current (check in drive in constant speed running)/2.5amps (drive current)

For example at 6 Hz speed motor takes 0.5 amps current then

$$0-17=100 \times 0.5 / 2.5 = 20 + (3 \text{ to } 5 \text{ extra}) = 23 \text{ or } 25$$

Note: for reset the drive put parameter 0-02-09 (for restore the parameters into default values.)

if you have any queries please call to 9600073866