

MAIN SETTINGS AND ADJUSTMENTS - DOMINO UP -

Press the button ENTER to display the MOTOR CURRENT; then, press the button MAN to start the motor and keep pressing the button MAN to verify the current consumption of the motor which it should be closed to its nominal value.

Motor Current
6,0 A

Release the button MAN and press a second time the button ENTER to display the COS-FI value of the motor. Press again the button MAN to start the motor and to verify the value of COS-FI.

Cos-Fi Motor
0,95

Once the two parameters values are known the protections for maximum current and minimum cos-fi can be set correctly as following:

- Press the two buttons  at the same time for at least 7-8 seconds;

Once the word "SETUP" will appear on the display, release the two buttons and verify that the first parameter, Maximum Current, is displayed:

Maximum Current
Motor : 7,2 A

With the same buttons "UP" and "DOWN" arrows, increase or decrease the value of maximum current depending on the motor being used. Based on the previous reading of "Motor Current" in MANUAL mode, set a value of "Maximum Current" about 15-20% higher, and press the button ENTER to confirm the value.

The second parameter Minimum Cos-Fi will be displayed:

Minimum Cos-Fi
Motor : 0,8

With the same buttons "UP" and "DOWN" arrows, increase or decrease the value of minimum Cos-Fi under which the protection will be activated. Based on the previous reading of "Cosi-Fi Motor" in MANUAL mode, set the "Minimum Cos-Fi" to a value between 5% to 10% lower, and press the button ENTER to confirm the value.

It's advised to test the setup while the pump is working in dry conditions for about 5-10 minutes (if possible). This is to verify that the parameters values being set are correct and that they will trigger a stop of the motor due to "DRY RUNNING" conditions.

In case of dry running conditions, when the current is below 50% of the "Maximum Current" being set, the "domino UP" will stop the motor and show an alarm "DRY RUNNING" on the display.

N.B. during operation:

If the COS-FI value of a THREE-PHASE pump is very low (e.g. 0.4, 0.3, 0.2), it means that the input phase are inverted. Therefore, try to invert them and verify the motor spins in the right direction.

It is possible that some motors will have COS-FI =1, and that this value will not decrease even during dry running conditions; in this case, the parameter for the Minim Current will assure protection anyway if correctly set.

Example of main settings and verification of protections:

- Nominal Current reading and being displayed = 6A
- COS-FI reading and being displayed = 0.95
- Maximum Current setting = 7.2A (6A+20%)
- Minimum COS-FI setting = 0.8 (0,95 – 15%)
- Minimum Current (auto-setting at 50% of Maximum Current) = 3.6A

In case of dry running conditions, the value of COS-FI would need to decrease below 0.8, or the current of the motor would need to decrease under 3.6A, for the Domino to react and stop the motor due to DRY RUNNING conditions.