## EPM-XX90 CONTROL PANEL FOR V/F SPEED CONTROLLER

EPM-3790. EPM-7790

Control Panel For V/F Speed Controller

FPM-7790

- -4 Digits display
- Easily adjustable set value from front panel
- Configurable display scale between -1999 and 9999
- Adjustable decimal point
- Set value low limit and Set value high limit boundaries
- Adjustable ramp up and ramp down time
- Forward, Reverse direction outputs and error input
- 0/2...10V --- Voltage output or 0/4...20mA--- Current output (It must be determined in order.)
- Password protection for Programming and Adjustment sections

EPM-xx90 series units are designed for controlling the speed and direction of the motor as a control panel for V/F Speed Controllers in industry. They can be used in many applications with their easy use and operation with their ramp properties.

#### **SPECIFICATIONS**

#### SCALE

Configurable between -1999 and 9999

#### OUTPUT

#### Analogue Output :

0/2...10V--- Voltage Output (Max. 10mA) or 0/4...20mA--- Current Output

#### Digital Outputs:

Forward Output (Max. 5mA@30V===)
Reverse Output (Max. 5mA@30V===)

#### INPUT

#### Digital Input:

Error Input (Max. 3mA@30V===)

Logic 1 Min. Level 7V---

Logic 0 Max, Level 5V===

#### RESOLUTION

12 bit

#### FLUCTUATION

Max. 30 mV

#### DISPLAY

Process Display: EPM-3790: 10 mm Red 4 digits LED display EPM-7790: 14 mm Red 4 digits LED display

LED Indicators: For both EPM 3790 and EPM 7790;

Start(Red), Forward Direction(Red), Reverse Direction(Red), Error(Red), P(Red)

#### **POWER SUPPLY**

#### Supply Voltage :

100-240 V  $\sim$  (-%15; +%10) 50/60 Hz -2 VA 24 V  $\sim$  (-%15; +%10) 50/60 Hz -2 VA

(It must be determined in oder.)

#### ENVIRONMENTAL RATING and PHYSICAL SPECIFICATION

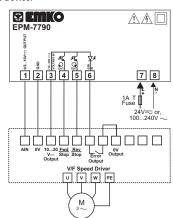
Operating Temperature: 0...50°C Humidity: 0-90%RH (none condensing) Protection Class: IP65 at front, IP20 at rear

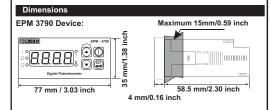
l	DEVICE	WEIGHT	DIMENSION	PANEL CUT-OUT
ı	EPM-3790	90 gr	77x35 mm, Depth:62.5 mm	71 x 29 mm
ı	EPM-7790	160 gr	72x72 mm, Depth:95.5 mm	69 x 69 mm

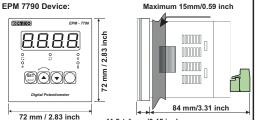
# Electrical Wiring EPM 3790 Device: | PM 3790 | PM 3790

#### EPM 7790 Device:

CE

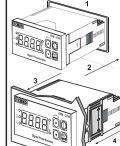






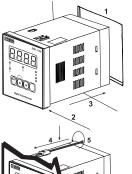
11.5 ± 1 mm/0.45 inch

### Panel Mounting EPM 3790 Device: 1-Before mounting



- 1-Before mounting the device in your panel, make sure that the cut-out is of the right size.
- 2-Insert the device through the cut-out. If the mounting clamps are on the unit, put out them before inserting the unit to the panel.
- 3-Insert the unit in the panel cut-out from the front side.
- 4- Insert the mounting clamps to the holes that located left and right sides of the device and make the unit completely immobile within the panel

#### EPM 7790 Device:



10000

(1000)

1000

- 1-Before mounting the device in your panel, make sure that the cut-out is of the right size.
- 2-Check front panel gasket position
- 3-Insert the device through the cut-out. If the mounting clamps are on the unit, put out them before inserting the unit to the panel.
- 4-Insert the unit in the panel cut-out from the front side.
- 5- Insert the mounting clamps to the holes that located top and bottom sides of device and screw up the fixing screws until the unit completely immobile within the panel

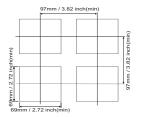
#### until th

## EPM-3790 110mm / 4.33 inch(min) (au) yeur / 2.79 inch(min) EPM-7790 (3 83 inch(min)



0000°

Panel Cut-out



#### EPM 7790 Device:

Front Panell Definition

FPM 3790 Device:

and Parameters

Led Indication

of Start

Led indication

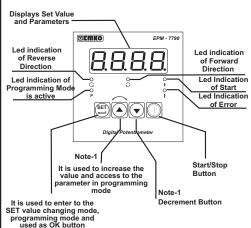
of Forward

Led indication

of Reverse

Direction

Direction



Led indication of

ed Indication

8888

Digital Potention

**Decrement Button** 

Note-1

of Error

Displays Set Value Programming Mode is active

Note-1

It is used to

increase the

value and access

to the parameter

in programming

mode

Start/Stop

Button

It is used to enter to

the SET value

changing mode, programming mode and used as OK button

FPM - 3790

**Note-1:** If increment or decrement button is pressed for 2 seconds continuously, increment and decrement number become 10, if pressed for 4 seconds continuously, increment and decrement number become 100, if pressed for 6 seconds continuously, increment and decrement number become 1000

Introduction Brochure. ENG EPM-xx90 01 V02 07/13

