

# MOTOR CONTROLLER

## Type TR-EM-208

The TR-EM-208 motor control unit is designed for operation with 1 single actuator.

The control's main function is to turn off the actuator's motor when the current limit is reached (protecting actuator and application against overload). It is also possible to adjust soft start and soft stop.

The FORWARD and BACK commands can be received in continuous or impulse signal mode. In continuous mode, the actuator continues to operate for as long as the command signal is activated. In impulse mode, only a single impulse is required to start and stop the actuator's movement.

The stop command has the highest priority and will be executed even if the command for running forward or backward has been activated.

When the current limit is reached this is stated with the error output and the error LED. If overheating of the PCB occurs, the thermal protection will be activated and shut down the control unit. This is indicated by the error output and flashing error LED.



### TECHNICAL DATA

Power supply	12-35 V DC (ripple max. 30%)
Max. power limit	12 A cont. 25 A (25% ON / 75% OFF)
Stand-by power	typically 10 mA
Power limit	range 1; 1-5 A (start 1.5x) range 2; 5-10 A (start 1.5x) range 3; 10-25 A (start 1.5x)
Thermal protection	120°C
Start ramp	adjustable 0-3 sec.
Free deceleration	adjustable 0-3 sec.
Operating frequency	2 kHz
Voltage loss	0.6 V (Im 12A)
Control inputs	"1" = 4-30 V DC, "0" = 0-1 V NPN
Error output	open-coll. 30 V 50 mA
Operating temperature	-10...60°C
Weight:	app. 105 g

### DECLARATION

TR-EM-208 is declared to be in compliance under the designation TECH system 208 in combination with LINAK-compatible actuators and controls in accordance with the machinery directive 2006/42/EC Annex I as a partly completed machinery with focus on the following: 1.2.1;1.2.2;1.2.3;1.2.4. 1;1.2.6;1.3.2;1.3.7;1.3.8.

TR-EM-208 is designed to run a single actuator and is compatible with following LINAK actuators: LA12; LA14; LA23; LA25; LA28; LA30; LA31; LA32; LA34; LA35; LA36 and LA37

The specified product is produced by Electromen OY



Specifications subject to change without prior notice.

It is the responsibility of the product user to determine the suitability of the products for a specific application. LINAK Danmark will at point of delivery replace/repair defective products covered by the warranty if promptly returned to LINAK Danmark. No liability is assumed beyond such replacement/repair.

Distributor:

LINAK Danmark A/S

Mønstedsvej 9

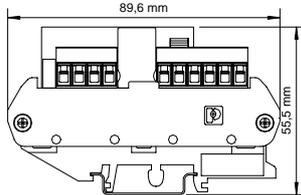
DK-8600 Silkeborg

Tel. +45 86 80 36 11 - [www.linak.dk](http://www.linak.dk)

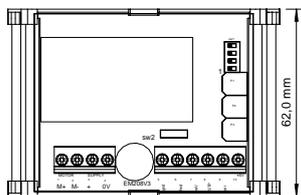


## Product variants

### TR-EM-208-R

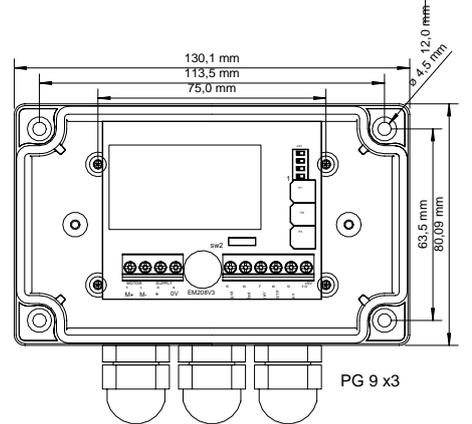
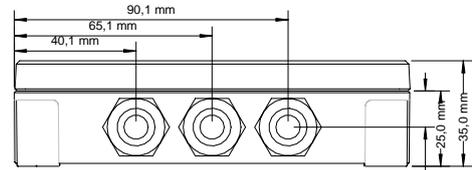


For mounting on a 35 mm DIN rail for building into a board



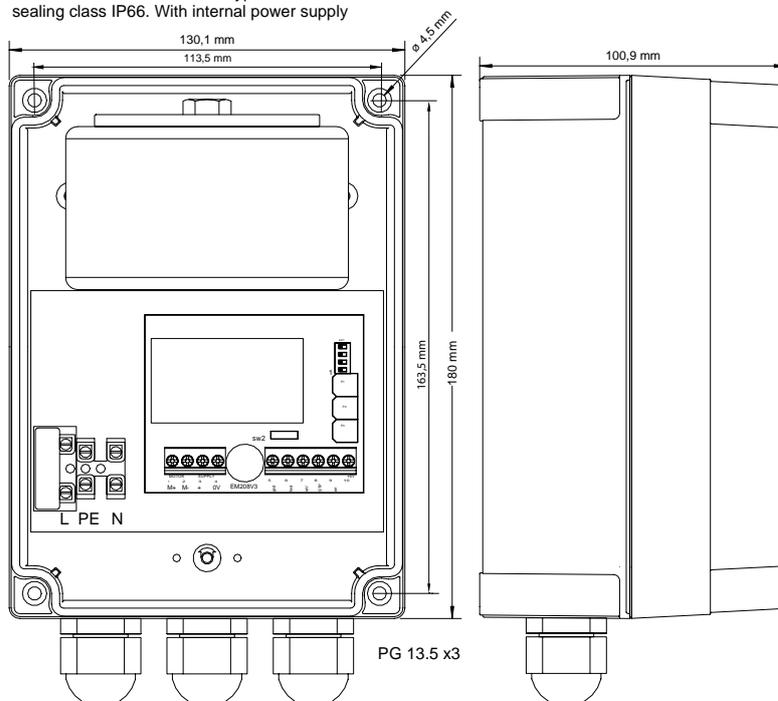
### TR-EM-208-H

Motor control mounted in box type Fibox PC100/35LG sealing class IP66. For external power supply



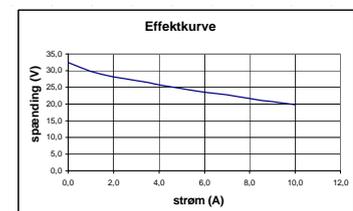
### TR-EM-208-T-230

Motor control mounted in box type Fibox PC150/100HG sealing class IP66. With internal power supply



#### TECHNICAL DATA (power supply)

Connected voltage	230 Vac
Fuse	T1.6A / 20.0 x 5.0 mm
Transformer	230 / 22 Vac / 150 VA
Max. current	10 A
Intermittence max.	12%
Filtering	8800 uF
Weight:	app. 2.4 kg



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Distributor:  
**LINAK Danmark A/S**  
 Mønstedsvej 9  
 DK-8600 Silkeborg  
 Tel. +45 86 80 36 11 - [www.linak.dk](http://www.linak.dk)