

SpaceLogic M22B, M50B

3-point 24 Vac/230 Vac Valve Actuator DN125...150



The M22B and M50B are electromechanical actuators for motorizing 2-way and 3-way valves DN125 and DN150 type V222, V292 and V321.

M22B and M50B actuators are powered by 24 Vac or 230 Vac and controlled by 3-point action (inc./dec.)

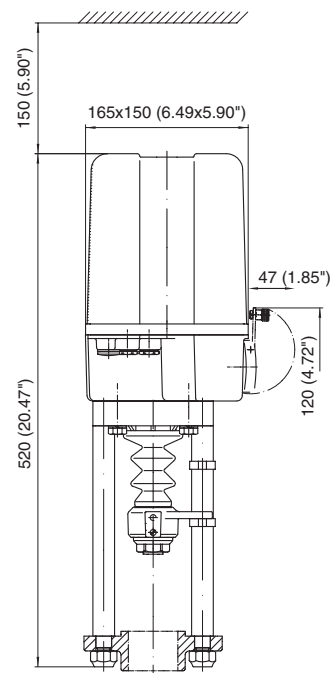
The actuators have optional end switches.

M22B and M50B can be ordered mounted in factory on the valve.

Specifications

Running time	
3-point 0...50 mm	
50Hz	132 s
60Hz	112 s
Thrust	
M22B	2200 N (495 lbf)
M50B	5000 N (1120 lbf)
Duty cycle	max. 80%/60 minutes
Optional travel switch	S2
Type	zero potential
Capacity	10A, 250V
Environmental	
Ambient temperature	
Operation	-20...+70 °C
Storage	-20...+70 °C
Ambient humidity	<95 %RH
Enclosure rating	IP 65
Standards/Directives	
Emission	EN 50081-1: 03.1993
Immunity	EN 50082-1: 11.1997 EN 50082-2: 02.1996
Main Construction Materials	
Housing	CoPA - Grivory GV-4H
Cover	PC - Polycarbonate
Color	black
Weight	
M22B	5.4 kg
M50B	6.0 kg

Dimensions mm (in)



Available Part Numbers

Part number	Description	Power supply	Power consumption	
			50 Hz	60Hz
890 0106 000	M22B-24V	24 Vac+10%/ -15%	12 VA	15 VA
890 0108 000	M22B-24V-S2V	24 Vac+10%/ -15%		
890 0110 000	M22B-230V	230 Vac +10% / -15%	11 VA	14 VA
890 0112 000	M22B-230V-S2V	230 Vac +10% / -15%		
890 0206 000	M50B-24V	24 Vac+10%/ -15%	19 VA	29 VA
890 0208 000	M50B-24V-S2	24 Vac+10%/ -15%		
890 0210 000	M50B-230V	230 Vac +10% / -15%	28 VA	35 VA
890 0212 000	M50B-230V-S2	230 Vac+10% / -15%		

Actuator

M22A and M50A consist of a reversible motor and a gear train in a CoPA housing.

All bearings of motor and gear train are of permanent lubrication type.

The reversible motor cuts out in both end positions on activating limit switches.

Additional switches

The actuators can be optional equipped with an additional stroke-switch board containing two travel switches (double-throw contacts (S4 and S5)). These switches can be adjusted to switch anywhere within the working range.

Manual operation

The actuator can be manually operated by means of a hand wheel. Since the hand wheel always follows during motor-driven operation (running indication), never operate by hand while the actuator is running.

Note: Switch off the electrical source and secure against turning on again.

The position of the actuator is indicated with a pointer between the actuator and the valve.

Installation

The installation of the M22B and M50B is carried out according to instruction, shipped together with the actuator, if the actuator is mounted on the valve from factory.

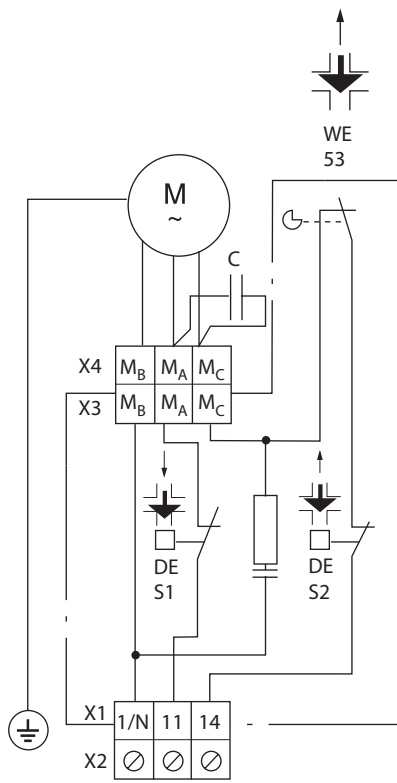
How to mount and adjust a M22B and M50B actuator to a valve is described in the handbook for M22 and M50.

The actuator may be mounted beside or above the valve.

Mounting below the valve should be avoided.

Wiring

M22B and M50B



M22B-S2 and M50B-S2

