VARIABLE SPEED ELECTROMAGNETIC BRAKE MOTOR

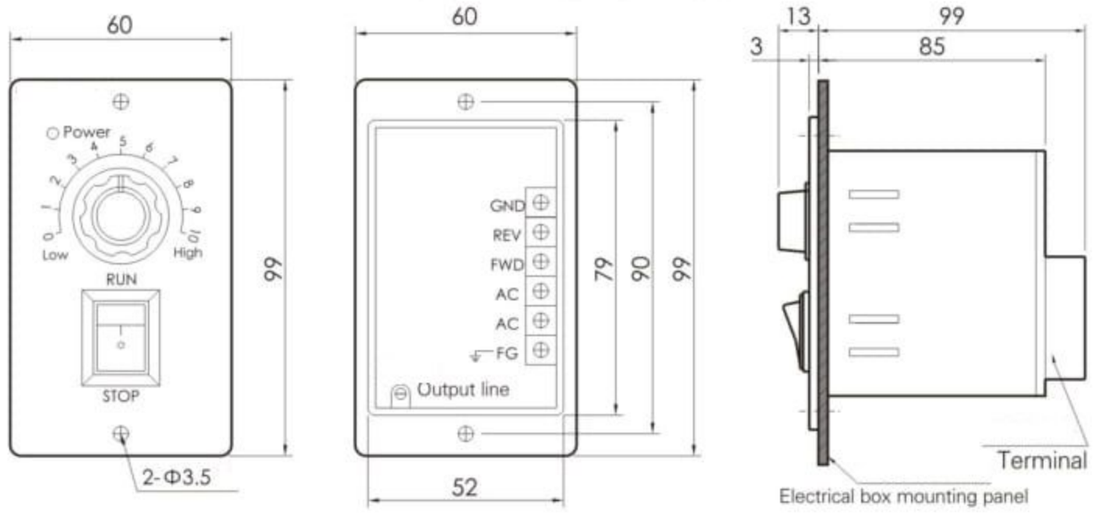
SPEED GOVERNOR

FEATURES

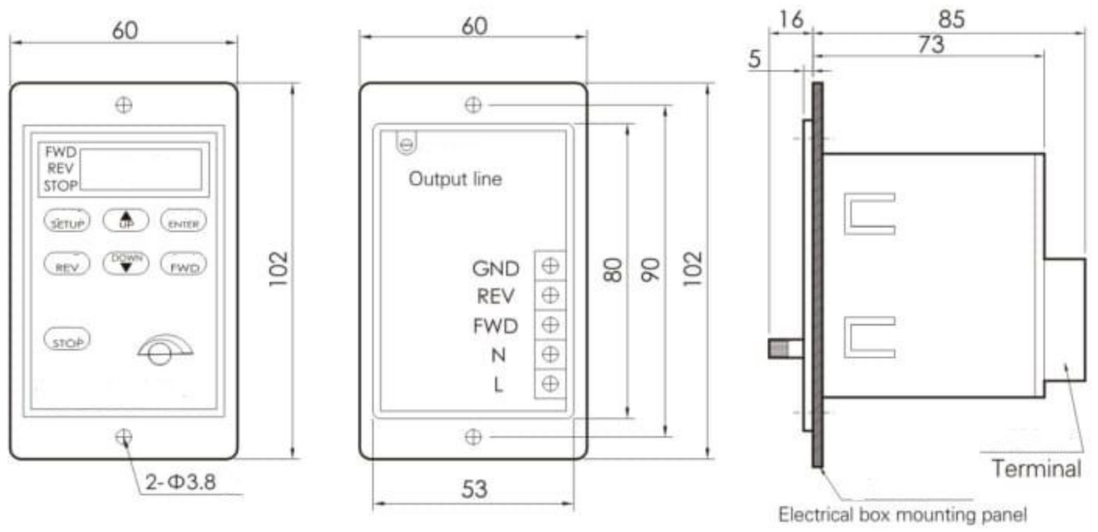
- Achieve continuously variable transmission in a wide range combined with variable speed motor
- Feature–rich, enabling slow acceleration, slow deceleration and motor stall protection.
- The capacitor for speed governor running is mounted directly inside the governor, featuring neat and convenient wiring.
- Stable speed regulation, power up to 200W.

PANEL SPEED GOVERNOR

WS–P dimensions



WS–L dimensions

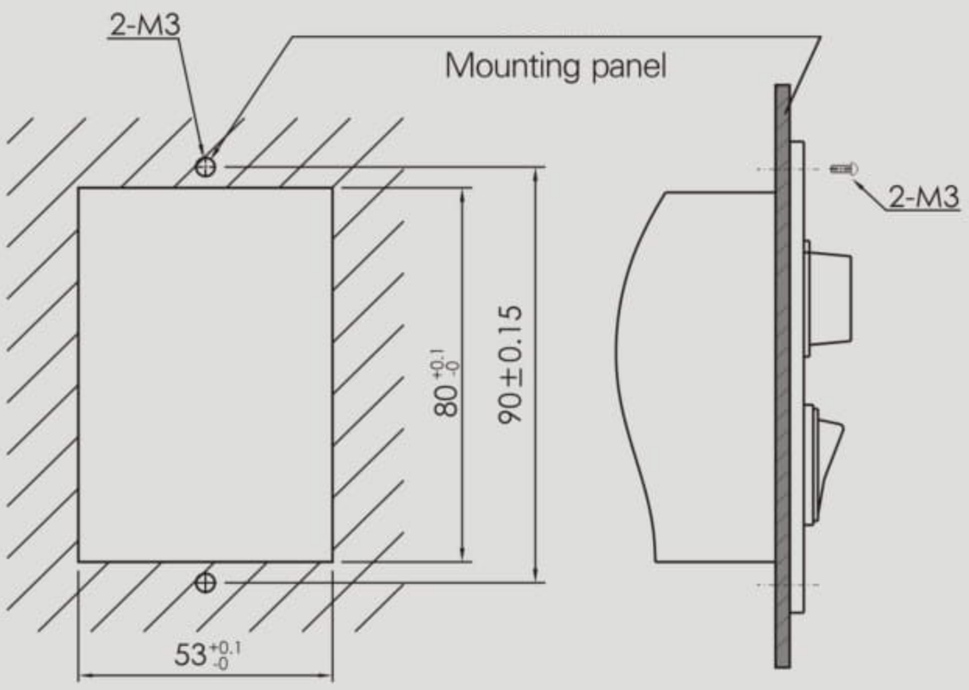


MODEL PARAMETERS

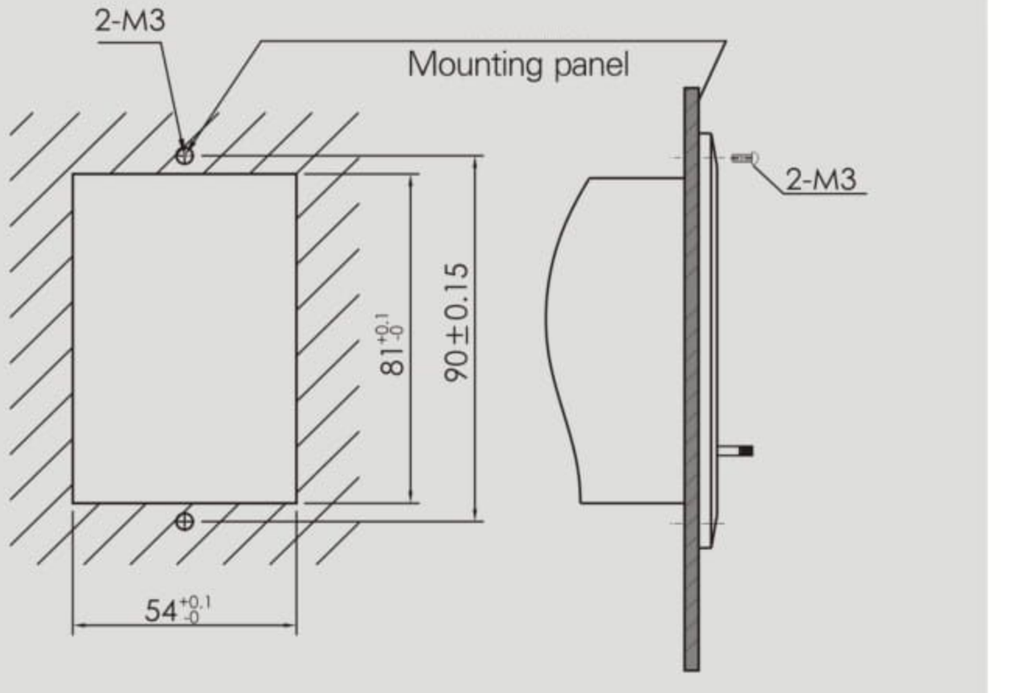
MODEL	WS–P	WS–L
INSTALLATION METHOD	Panel	Digital panel
SPEED REGULATION	Panel potentiometer	Digital
SUPPLY VOLTAGE	220V Single phase 220V	220V Single phase 220V
CONTROL FEATURES	Speed control, slow acceleration, slow deceleration, electronic brake	Speed control, slow acceleration, slow deceleration, electronic brake, stall protection, panel control forward and reverse rotation, speed display, percentage display (the difference between displayed speed and actual speed is 5r/min)
APPLICABLE MOTOR POWER RANGE	6W~200W	
RUNNING CAPACITOR	Built–in	
POWER FREQUENCY	50/60Hz	
SPEED RANGE	50Hz:90~1300r/min 60Hz:90~1600r/min	
RATE OF SPEED CHANGE	5%	
ELECTRONIC BRAKING TIME	0.4sec	
ENVIRONMENT OF USE	–10℃~+40℃ No freezing, <85% (No condensation)	

INSTALLATION OF PANEL SPEED GOVERNOR

Hole size of WS–P control panel



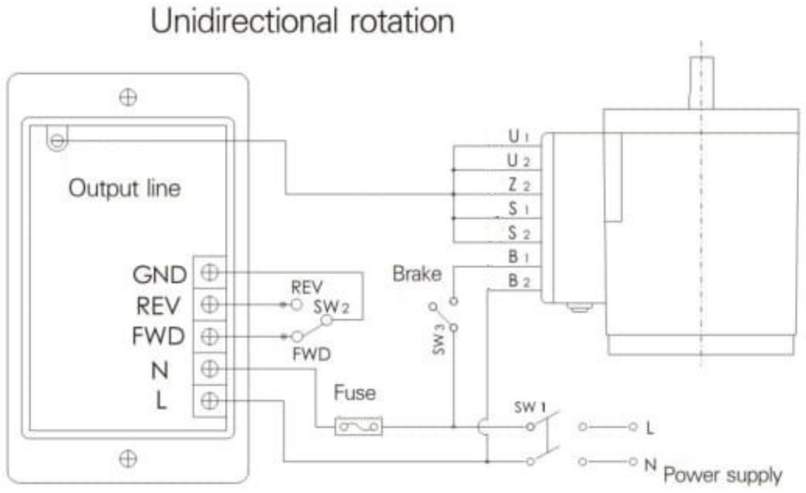
Hole size of WS–L control panel



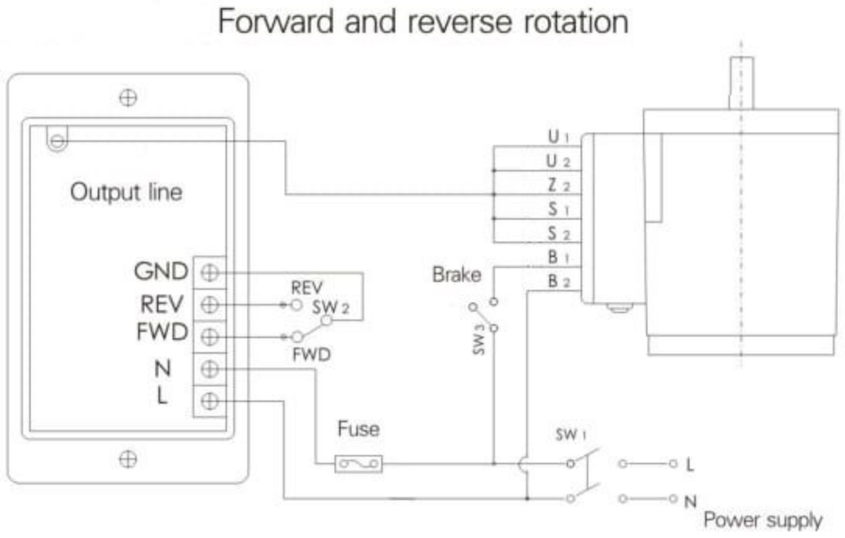
Put the governor into the hole in the direction shown, and tighten the screws.

WIRING METHOD

Unidirectional rotation



Forward and reverse rotation



DIRECTION OF ROTATION

When the governor is delivered, the cord of rotation direction selection has been connected to the L and FWD terminal, and the motor rotates clockwise; to make the motor rotate counterclockwise, just connect the cord to the REV terminal. For forward and reverse rotation, connect FWD and REV terminals to the rotation direction selector switch Sw2.

Note: Model WS–L allows controlling forward and reverse rotation with the panel button, or manually connect rear panel wiring.

MOTOR BRAKE STOPS

When the motor stops running, disconnect SW3, the de–energized electromagnetic brake in the motor brakes, and the motor brakes and maintains the load. In the normal operation of the motor, it is not allowed to disconnect SW3, or else the motor and the de–energized electromagnetic brake in the motor will burn.

● Special Note

When B1 and B2 are energized, the de–energized electromagnetic brake won't brake; when B1 and B2 are de–energized, the de–energized electromagnetic brake brakes. Brake power switch must be synchronized with the motor speed control switch.

RUNNING OPERATION

Connect the speed governor to the motor as shown in the figure, and then turn on the AC power. Close SW3, the de–energized electromagnetic brake in the motor is energized, and the electromagnetic brake fails; the switch on the panel turns to RUN, and the motor starts to rotate.

SPEED ADJUSTMENT

Rotate the speed control knob clockwise on the panel, and the motor speed increases; the range of adjustment: 50Hz: 90 ~ 1300r/min; 60Hz: 90~1600r/min

● Special Note

Do not use SW1 power switch as the start/stop speed governor of running/brake switch and stop braking with the motor and hold the load, or else it will damage the speed governor easily. At present, internal circuit needs time to charge when the speed governor is turned on every time, the motor won't be started immediately, and the action will be abnormal.

STOP

Turn the switch on the governor panel to STOP, and the motor stops.

NOTE: This switch is not a power switch. If the motor stops running for a long time, please equip a separate power switch.