



# LSA-U SERIES CONTROLLER

UNIT TYPE

CONTROLLERS

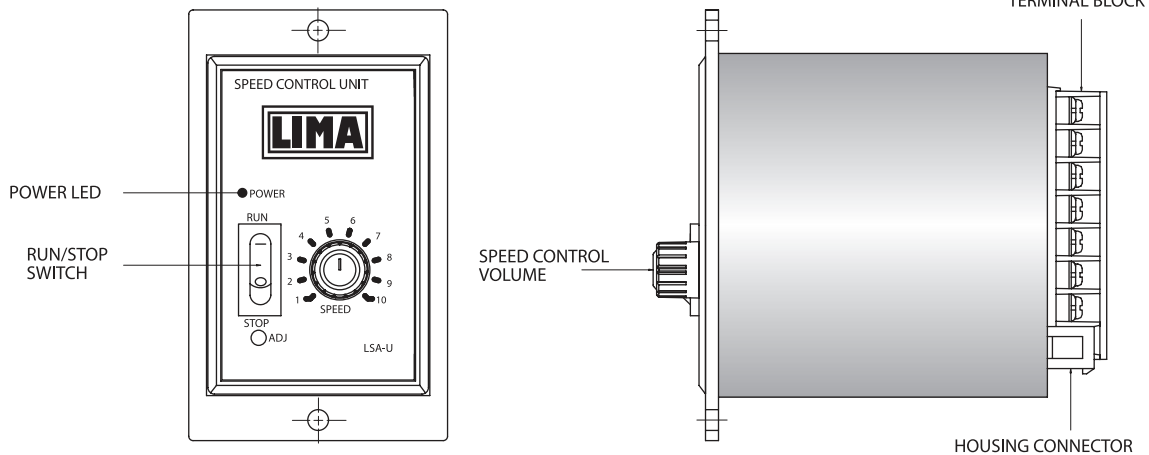
## Features

- Speed Controller with Tacho generator
- Digital Type : PI Automatic Control by MICOM
- One-touch connection by 8 pin housing connector  
(extension cord 3[m] long max, optional)
- Built-in speed setting



## Operation

1. Turn on the main circuit breaker.
  2. Turn on the RUN/STOP switch.
  3. Turn "Speed Control Knob" slowly, clockwise, to increase speed.
  4. Turn "Speed Control Knob" slowly, counter clockwise, to decrease speed.
  5. Turn off the RUN/STOP switch to stop the motor
- \* No.1 and No.2 of TERMINAL BLOCK can use as rpm meter

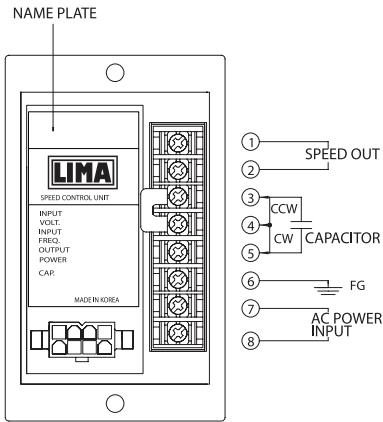




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## Changing the motor's rotation "CW"(set at the factory) to "CCW"



- \* CW  
④ and ⑤ connection(short)
- \* CCW  
③ and ④ connection(short)

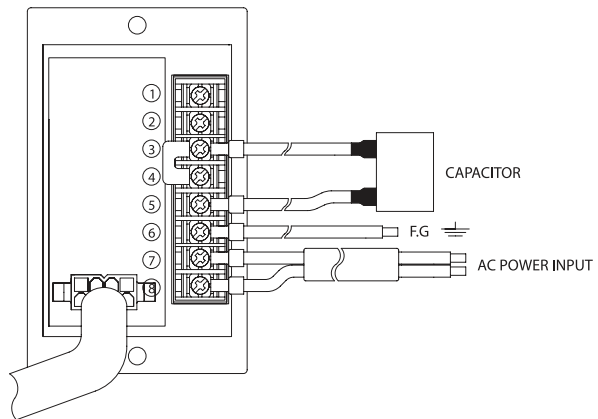
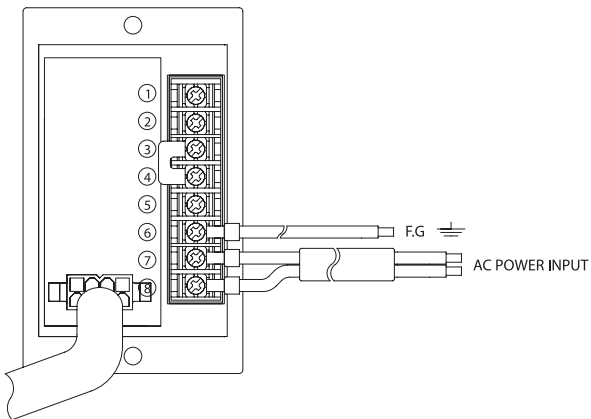
CONTROLLERS

## Connection

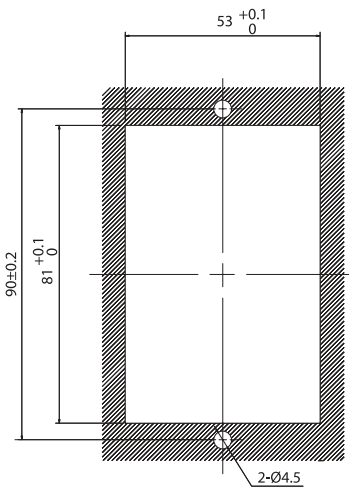
### Motor & Controller Connection

Internal Capacitor type

External Capacitor type



## Connection



- ▶ Cut a hole in the mounting plate as indicated in the diagram to the left.
- ▶ Insert the control unit from the front of the mounting plate and fasten with screws and nuts.

- Mounting screw(M4 × 10) ..... 2
- Nuts ..... 2
- Washers ..... 2



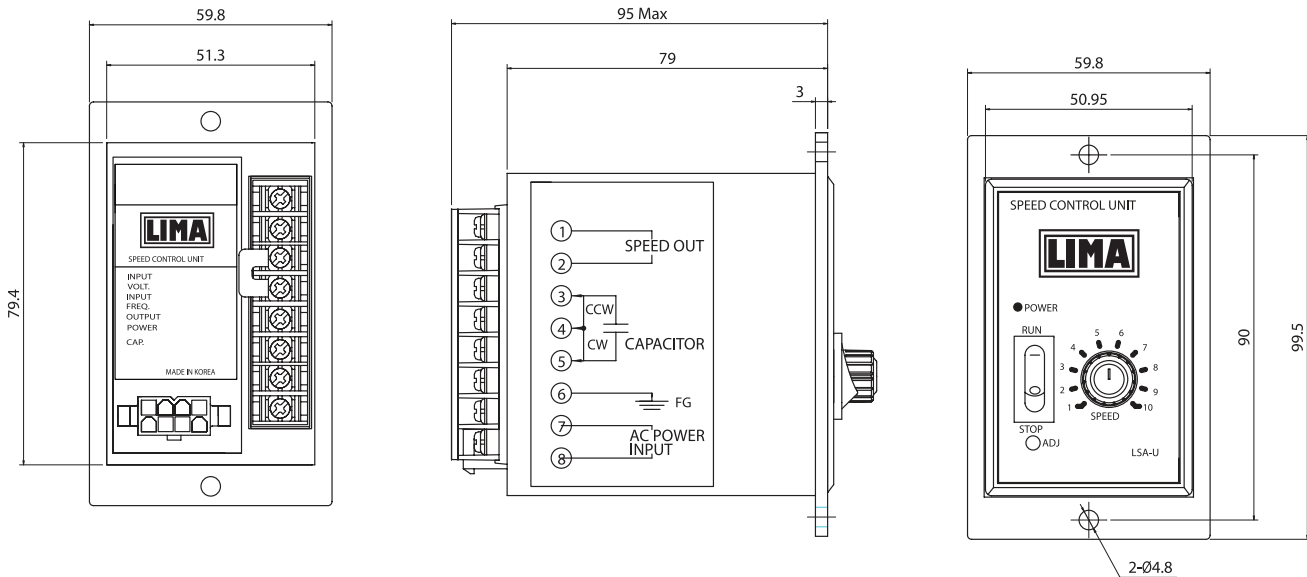
# LSA-U SERIES CONTROLLERS

Frame size 90mm sq. (3.54 in.sq.)

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## Dimensions

Unit : mm(inch)



## Performance Data

Unit : mm(inch)

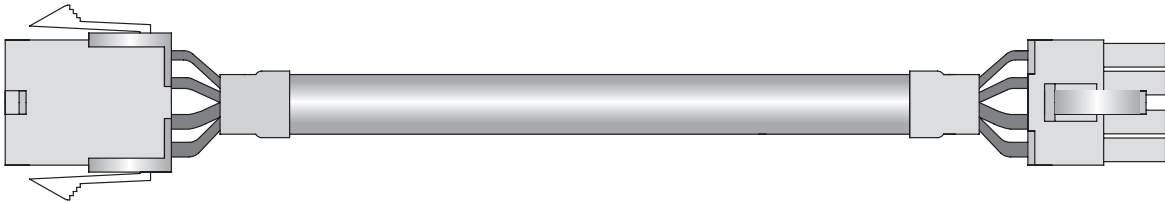
Item	Model	LSA-U □□				
		1 Ph. 100V	1 Ph. 200V	1 Ph. 115V	1 Ph. 220V	1 Ph. 220V~240V
1	Input voltage	1 Ph. 100V	1 Ph. 200V	1 Ph. 115V	1 Ph. 220V	1 Ph. 220V~240V
2	Input voltage Threshold	Rated voltage $\pm 10\%$				
3	Input Frequency	50 / 60 Hz				
4	Speed Range	50Hz : 90~1400 rpm, 60Hz : 90~1700rpm				
5	Permissible Current	MAX. 5A				
6	Motor output	6W ~ 180 W				
7	Control method	TRIAC AC PHASE CONTROL				
8	Speed Control method	PI Automatic Control by MICOM				
9	Sensor Type	AC Tacho Generator(T.G)				
10	Speed set method	Volume type				
11	Power switch	Tumbler switch				
12	Display Red LED	Input Power ON : light, Input Power OFF : off				
13	Weight	About 170g(Except for Internal Capacitor)				
14	Operating Temp.	$-5^{\circ} \sim +40^{\circ}$				
15	Operating Humidity	Max 85% (No condensation)				
16	FUSE	Inside control unit				
17	Insulation Resistance	100M $\Omega$ or more when 500VDC is applied between the windings and the frame				
18	Dielectric Strength	Sufficient to withstand 1.5kV at 50/60Hz applied between the windings and the frame for 1 minute				
19	EMC	Please contact us				

# LSA-U SERIES CONTROLLERS



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## Extension Cord



CONTROLLERS

- ※ Extension cord(optional) is conveniently used when motor is located more than 300[mm] apart from control unit
- ※ Standard length is 0.5[m]  
(option : max 3[m])