

SGEL108/106CV

Dustproof

Speed Controllable Trigger Switches for AC Power

With Variable Speed Control



RoHS Compliant

■ Features

1. High-Current Trigger Switch With Speed Controller

High current, compact trigger switch with speed control circuit for AC power.

2. Junction Terminal For Easy Wiring

Junction terminals and terminals for noise canceller capacitor are also provided, which makes wiring work easy and simple.

3. Variable Speed Control

Available with or without speed adjustment knob.

4. For 100 VAC and 200 VAC

100~130 VAC and 220 V~240 VAC (50/60 Hz) are available to comply with the different voltage requirements of each countries throughout the world.

5. Dustproof

The switch has no openings which assures excellent protection against dust.

6. High Reliability

The sliding contact mechanism (wipe mechanism) assures high contact reliability.

7. UL Recognized, CSA Certified

■ Common Specifications

Rating	108CV type	8A 125V AC (Resistive or inductive load)
	106CV type	6A 250V AC (Resistive or inductive load)
Dielectric strength	2,000VAC 1 minute	
Insulation resistance	100MΩ min. (500VDC)	
Electrical life	50,000 operations (108CV type : 125VAC 48/8A P.f. 0.6/0.9 106CV type : 250VAC 36/6A P.f. 0.6/0.9)	
Operating force	11.8~24.5N	
Operating temperature range	-10~+65°C	
Storage temperature range	-20~+80°C	

■ Part Numbering

SG	E	L	108CV	—	A	—	Z
Series code	Dustproof	Lock mechanism	Applicable voltage range		Actuator shape		
		None Without	108CV AC100~AC130V		None Standard type		
		L With	106CV AC220~AC240V		A With speed adjustment knob		

※ It is all an inquiry product. Please consult us for ordering.

Table of Part Numbers

Speed adjustment knob	Applicable voltage range	Standard type	
		Without lock mechanism	With lock mechanism
Without	AC100V~130V	SGE108CV-Z	—
	AC220V~240V	—	—
With	AC100V~130V	SGE108CV-A-Z	SGEL108CV-A-Z
	AC220V~240V	SGE106CV-A-Z	SGEL106CV-A-Z

Thyristor Specifications

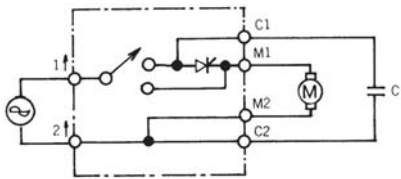
It (AV)	サITSM	VRRM
8A	120A	600V

UL recognized / CSA certified.

Circuit Diagram

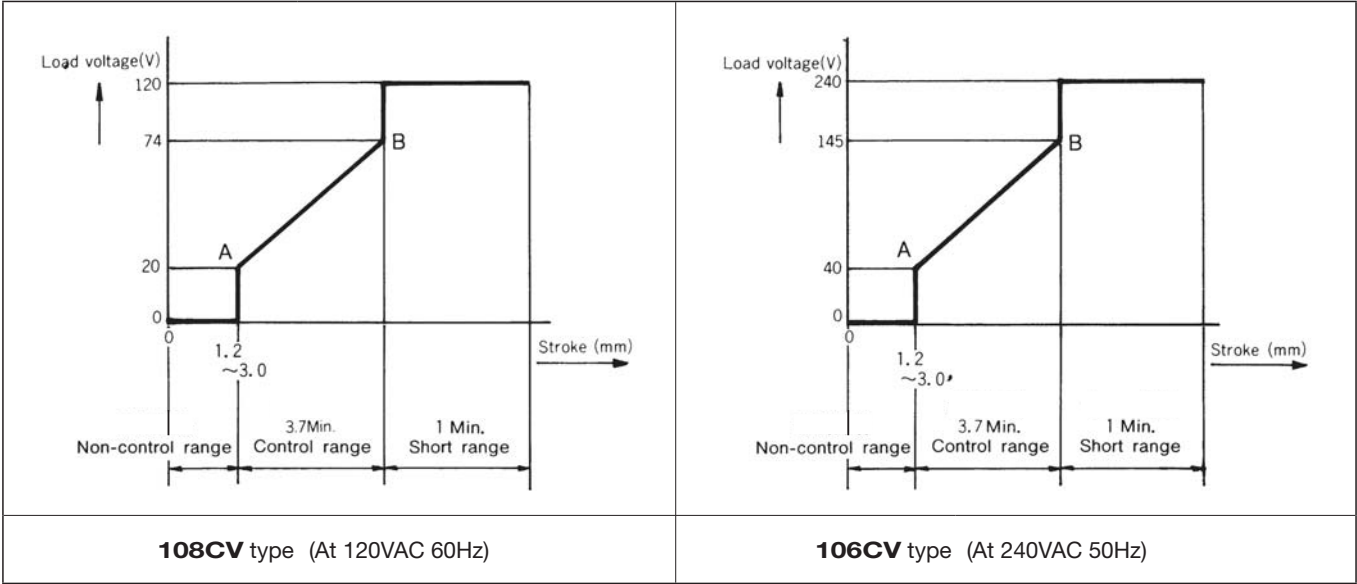
Trigger position A	Control range (From A pos. 1.2~7.3mm)	Short range (From A pos. 7.3~9.2mm)	Circuit diagram
OFF	ON	ON	
—			

Wiring Diagram

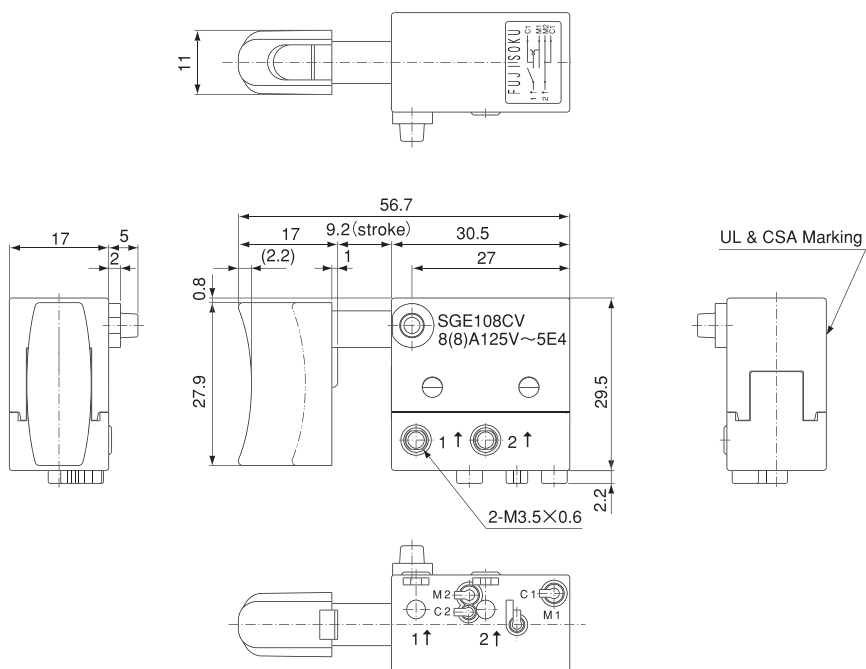


1 ↑ · 2 ↑ : Terminals for power source
C1 · C2 : Terminals for capacitor
M1 · M2 : Terminals for motor load

Control Characteristics

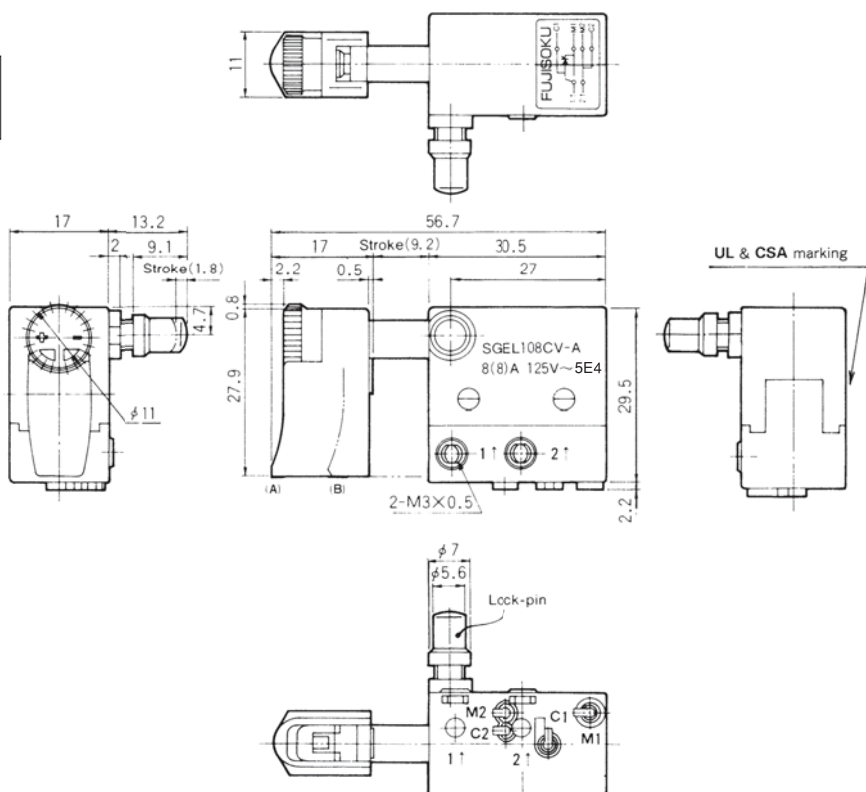


Standard type



Dustproof

With Speed Adjustment Knob



Dustproof

■ Customizations

- Customization of colors, shapes, etc. of the trigger, knob, lever, etc. are available.

■ Precautions

1. Tightening torque for the terminal screw.
: 58.8N · cm max.
2. Lead Wire
 - (1) Terminal portion for the motor load and power source.
(1 ↑ · 2 ↑ · M1 · M2)
: AWG18 (Dia of covered wire = 3 mm max.)
 - (2) Terminal portion for the capacitor. (C1 · C2)
: AWG20~24 (Dia of covered wire = 2 mm max.)
 - (3) Wire stripping
: 8~8.5 mm