

Speed Control Unit ESD5300 SERIES

The ESD5300 Series speed control unit is designed to precisely control engine speed and provide a fast precise response to transient engine loads. The ESD speed control is intended to be used with all GAC Actuators and has a high output actuator driver capable of driving GAC's largest actuators including the ACB2001. A complete closed loop control system is formed with the addition of a magnetic pickup signal sensing engine speed and 24 Volt DC power.



FEATURES

- Variable Speed Governing
- Two Speed Element Switch
- Unique Actuator Power Drive Circuit
- Starting Fuel Control for Lower Engine Exhaust Emissions
- Accessory Inputs for Load Sharing
- Protection Against Transient Voltage
- Protection Against Reverse Battery Voltage
- Speed Ramping from Idle to Operating Speed

SELECTION CHART

	Standard Features	Dynamic Starting Aid
ESD5330	•	
ESD5340	•	•
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ACCESSORIES

LSM672/LSM672N *(extra filtering)* Load Sharing Module



ACB2001 Series

Universal Electric Actuator

- 24 VDC
- Isochronous Load SharingForward-Reverse Power
 - Monitors

A Load Sharing Module proportionally shares the load between two or more generator sets while the system frequency is held constant. As an accessory, the LSM672 measures the true power current, and through a parallel cable interconnection, continuously controls the governing system.

SPECIFICATIONS

Performance

Environmental

±0.25%	Isochronous Operation	
1 - 7.5 KHz Continuou	Speed Range	
±1%	Speed Drift with Temperature	
25 - 85% of Rated Speed	Idle Speed Adjust Range	
1 - 5% Regulatior	Droop Range	
±200 Hz	Speed Trim Range	
25 - 100% of Rated Speed	Remote Variable Speed Range	
266 Hz/sec to 1300 Hz/sec	Speed Ramp Time Acceleration. Adj. Range	
250 Hz/sec to 1000 Hz/sec	Deacceleration. Adj. Range	
	tarting Fuel Adjustment	
75, 225, 275 Actuators / SW2-7 "OFF	0.0 - 1.5 A 120	
t Only) 2000 Actuators / SW2-7″ON′	0.3 - 4.0 A (24	
2400 Hz to 9300 Hz	Overspeed Set Point	
200 Hz to 2050 Hz	Crank Termination Set Point	
	erminal Sensitivity	
5 Hz., ±15 Hz/Volt @ 5 K Impedance	Н	
Hz., ±15 Hz/Volt @ 1 M Impedance	Μ	
Iz., \pm 40 Hz/Volt @ 225 K Impedance	К 68	
0 Hz., ±50 Hz/Volt @ 8 K Impedance	N 1	

Similar
-40 ° F to +185 ° F (-40 ° C to +85 ° C)
up to 95%
5 G @ 20 - 500Hz
Fungus Proof and Corrosion Resistant

Electrical

Power Supply	24 VDC Battery Systems
	(Transient and Reverse Voltage Protected)
Maximum Continuous Supply Voltage	18 or 32 Volts
Polarity	Negative Ground (Case Isolated)
Power Consumption	100 mA (No Actuator Current)
Maximum Actuator Current	9 A Continuous
Speed Sensor Signal	0.5 - 50 VAC
Maximum Current, Speed Switch Contact (T	erminals 1-6) 6 Amps
- Contraction of the Contraction	

Physical		
Dimensions		
Weight	3.0 lb (1.36 kg)	
Mounting	Any Position, Vertically Preferred	

Conforms to CE directive for light and heavy industrial usage when installed in accordance with special instructions and as per the wiring diagram which is found in PIB1041.

OPTIONS

GAC's ACB2001 actuator is a rotary output, 24V, linear torque proportional electric servo designed for mechanical actuation of fuel system control levers requiring torques in the 5 ft-lb range. Energized by GAC's ESD5300 Series speed control units, the actuator is capable of 35 degrees of rotation with torques as high as 12 ft-lb. Internal springs provide fail safe operation by forcing the actuator to the fuel shut off position when the actuator is de-energized. Since the design has no sliding parts, and is totally sealed, its reliability is outstanding and no maintenance necessary. Engine applications include large block pumps, dual medium carburetors, and some large size carburetors.

- CW & CCW Shafts Available
- Multiple Mounting Positions
- Universal DesignInternal Return Spring
- Rapid Response to Transient Conditions
- High Performance SYNXTREME HD-2 Lubricant

Governors America Corp. 720 Silver Street Agawam, MA 01001 Phone: 413.233.1888 Fax: 413.789.7736 www.governors-america.com info@governors-america.com

