Linear Servo Amplifier

This amplifier is used to drive LSVG/LSVHG series high speed linear servo valves. With an optimal design for the servo valves, the amplifier can maximize the valve performance.

Specifications

Description \ Model Numbers	AMLS-∗-D48-∗-10	AMLS-∗-D24-∗-10
Power Supply	DC 48 V ± 2.4 V (200 VA or more)	DC 24 V ± 1.2 V (75 VA or more)
Rated Output Current	Continuous ± 2 A (4 A Peak)	Continuous ± 2 A (3 A Peak)
Input / Output Signal	Output Signal = Spool Travel Monitoring	
AMLS-∗-D48/D24-A1-	Voltage Signal ± 10 V (Ri = 100 kΩ, RL ≧ 10 kΩ)	
AMLS-∗-D48/D24-B1-	Current Signal 4 - 20 mA (Ri = 200 Ω, RL ≧ 100 - 500 kΩ)	
AMLS-∗-D48/D24-C1-	Current Signal ± 10 mA (Ri = 200 Ω, RL ≧ 100 - 500 kΩ)	
Control Input / Output Signal	a) Servo "ON" Input/Alarm Reset Input: Photocoupler Input Voltage: + 15 VDC to + 28 V, Input Impedance: 2.2 kΩ b) Overcurrent Output (Curr.AL.)/Deviation Alarm Output (CRTL.AL.): Photocoupler Output Voltage: Max. 50 VDC, Current: Max. 30 mA	
Ambient Temperature	0 - 50 °C (32 – 122°F)	
Ambient Humidity	20 - 90 %RH (No Condensation)	
Mass	1.8 kg (4.0 lbs.)	

Model Number Deignation

AMLS	-A	-D48	-A1	-10
Series Number	Applicabele Valve Type	Supply Voltage	Input Signal/Spool Travel Monitoring	Design Number
AMLS: Linear Servo Amplifier	**A:** LSVG-03-4/10/20/40 **B:** LSVG-03-60 **C:** LSVHG-06-900 & LSVHG-10-1500 **C2:** LSVHG-04-750 **D:** LSVHG-06-1300	**D48:** 48 VDC **D24:** 24 VDC	**A1:** Voltage Signal ± 10 V **B1:** Current Signal 4 to 20 mA **C1:** Current Signal ± 10 mA	**10**

I/O Signal Characteristics