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Power Amplifiers for High Response Type Directional and Flow Control Valves

<u>NO.</u> 14

AMB-EL-*-*-*-20

Notice of Model Change

We are pleased to announce that the highly reputed power amplifiers for high response type direction and flow control valves AMB-EL have been remodeled by supporting a wider variety of I/O signal types.

Product News

Major Changes

While the previous models support only one I/O signal type (voltage signal ± 10 V), the remodeled products support additional I/O signal types (current signal 4 - 10 mA and current signal ± 10 mA). Along with this change, the I/O signal type designation has been added to the model number designation.



Specifications

Model Numbers	AMB-EL-01	AMB-EL-03	AMB-EL-04	AMB-EL-06			
Items							
Mar Ostrad Commu	2.5 A 3.0 A 2.5 A						
Max. Output Current	$(3.9 \ \Omega \ Solenoid) \qquad (3 \ \Omega \ Solenoid) \qquad (3.9 \ \Omega \ Solenoid)$						
	Voltage Signal Type (A, D): ±10 V/±5 V ^{*1}						
Max. Input Voltage	Current Signal Type (B, E): 4 - 20 mA						
	Current Signal Type (C, F): ±10 mA						
Input Impedance	Voltage Signal Type (A, D): 100 k Ω (50 k Ω in single-end mode)						
mput impedance	Current Signal Type (B, C, E, F): 200 Ω						
Slope-off Input	4 - 28 V						
Slope Adjust Time	0.05 - 5 s (The slope adjustment function is not available with AMB-EL-*-2P.)						
Stroke Monitor Signal *2	Voltage Signal Type (A, D): ± 10 V/Rated Stroke (RL ≥ 10 k Ω)						
	Current Signal Type (B, E): 4 - 20 mA/Rated Stroke (RL 100 - 500 Ω)						
	Current Signal Type (C, F): ±10 mA/Rated Stroke (RL 100 - 500 Ω)						
Alarm	Open Collector (30 V DC, 10 mA Max.)						
Supply Voltage Range	21 - 28 V DC						
Power Input	30 W	40 W	30	W			
Ambient Temperature	0 - 50 °C						
Ambient Humidity	85 %RH or less (No Condensing)						
Connector	DIN41612-F32						
Approx Mass	280 g	280 g	340 g	340 g			

Applicable to Valve

Power Amplifier Model	Valve Model Numbers
Numbers	
AMB-EL	ELDFG-01/03 ELDFHG-04/06

*1. The input signal voltage can be switched between ± 10 V and ± 5 V by the "input sensitivity selection jumper plug" in the amplifier.

*2. For AMB-EL-04/06, the value corresponds to the monitoring of the main spool stroke; the monitor signal for the pilot spool stroke is ± 10 V/rated stroke.

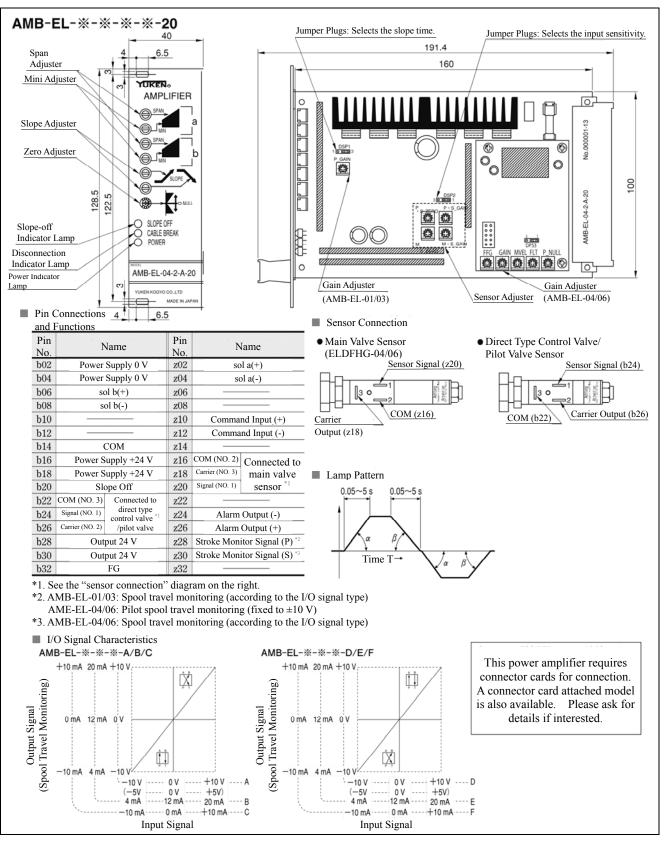
Model Number Designation

AMB	-EL	-03	-2P	-1	-A	-20			
Series Number	Type of Function	Size of Applicable Valve	Applicable Spool Type	Compensation	I/O Signal Type	Design Number			
1 5,	EL:	01	None: 3C2, 3C40	*	A: Voltage Signal ± 10 V (Positive Input: $P \rightarrow B \rightarrow A \rightarrow T$ Flow) B: Current Signal 4 - 20 mA (12 - 20 mA: $P \rightarrow B \rightarrow A \rightarrow T$ Flow) C: Current Signal ± 10 mA (Positive Input: $P \rightarrow B \rightarrow A \rightarrow T$ Flow) D: Voltage Signal ± 10 V (Positive Input: $P \rightarrow A \rightarrow B \rightarrow T$ Flow)	20			
	DC Input Type	03		1: 40/80 L/min					
	Directional and	04		2: 280 L/min					
	with Minor	06 2P: 30	2P: 3C2P 3: 350 L/min 4: 500 L/min	3: 350 L/min					
				E: Current Signal 4 - 20 mA (12 - 20 mA: $P \rightarrow A \rightarrow B \rightarrow T$ Flow) F: Current Signal ±10 mA (Positive Input: $P \rightarrow A \rightarrow B \rightarrow T$ Flow)					

Please refer to us for *.



PRODUCTS NEWS



Timing of Release

Scheduled to be released in MM 2013.

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