

CONTROL AMPLIFIER FOR EHD3-06-F (WITH INTERNAL FEEDBACK)

ECAD-D1FB-** (AMPLIFIER FOR EHD3-F (WITH INTERNAL FEEDBACK))

This control amplifier drives current-controlled type directional and flow control valves (EHD3-06-F).

The control circuit power supply is stabilized and an operational amplifier is used for the control circuit so that the control amplifier ensures stable operation regardless of variations in the power supply voltage and load. In addition, the differential transformer built into the valve provides feedback control to achieve accurate control.

- The chassis is not connected to the ground of the internal control power supply. To connect the chassis to the internal control power supply ground, connect terminal No. 4 to terminal No. 9.
- If the SOL connection terminal is disconnected with the power on, a surge voltage is generated and it may degrade the solenoid insulation.

SPECIFICATIONS

Model	ECAD-D1FB-A	ECAD-D1FB-B
Power supply voltage	100/110 VAC 50/60Hz	200/220 VAC 50/60Hz
Permissible voltage variation range	±10%	
Input voltage	0 to 10 VDC	
Max. gain	300 mA / 5 V	
Input impedance	8 kΩ	
Rated output current	300 mA	
Variable resistor for setting	2 kΩ (when an external setting variable resistor is used)	
Operating temperature range	0 to 50°C	
Max. power consumption	16 VA	
Applicable valve	EHD3-06-F	

EXTERNAL DIMENSIONS AND NOMENCLATURE

● ECAD-D1FB-*

● Terminal Functions

Terminal No.	Descriptions	Terminal No.	Descriptions
1	Power supply input	13	Output signal +10V
2	1 to 2: 100 VAC (200 VAC) 1 to 3: 110 VAC (220 VAC)	14	Output signal -10V
3	1 to 3: 110 VAC (220 VAC)	15	Input/output of differential transformer 15 → F 16 → A 17 → B 18 → C 19 → D 20 → E
4	Frame ground	16	
5	Output to valve SOLa	17	
6		18	
7	Output to valve SOLb	19	
8		20	
9	Shield	21	Output of differential transformer displacement COM
10	Input signal COM	22	Output of differential transformer displacement SIG
11	Input signal SOLa IN	23	Spare
12	Input signal SOLb IN		

● Terminal Connection