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## **EA47**

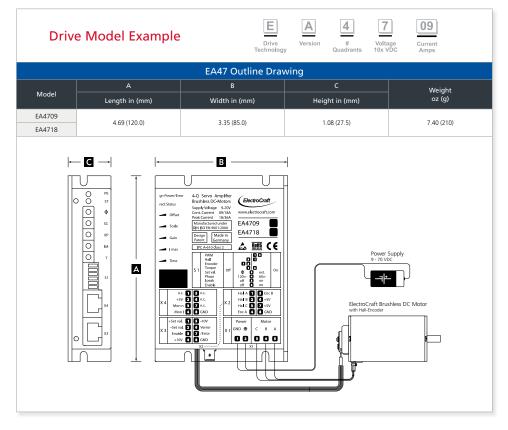
## | Servo Amplifier

Power Supply Voltage	Nominal Current	Quadrants	Operation Mode			
			Torque Control	Speed Control by Hall Sensor	Speed Control by Digital Encoder	
9 – 70	9 / 18	4	•	•	•	



## For BLDC Motors. Up to 1260W.

This four-quadrant brushless DC servo amplifier is fully enclosed in a small rugged aluminum case which can be DIN-rail mounted or panel mounted for easy integration. The drive can be configured in a variety of torque and speed control modes with the mode of operation being set by simple DIP switches. Both the 9 A and 18 A versions of this drive have an adjustable current limit, peak current time and ramp function and can be powered by the same 9 – 70 VDC range of supply voltage. The drive is protected against over-current and over-temperature and motor short-circuit and incorporates state of the art MOSFET technology for maximum efficiency. Connectivity is tool-free with RJ-45-CATs connectors for control/feedback inputs and push-type terminals for supply power and motor connections.



EA47 Specifications									
Model Number	Power Supply Voltage (VDC)	Aux. Voltage Verror (VDC)	Nominal Current (Amps)	Peak current (Amps)	Max. Power with Heatsink (Watts)	Frequency of power output stage (kHz)	Efficiency (%)		
EA4709	9 – 70	5 - 30	9	18	630	50	97		
EA4718	9 – 70	5 - 30	18	36	1260	50	97		
			Co	ntrol Inputs					
	Enco	der input signals			Channel A, B; TTL / +5 VDC; max. 78 kHz; Ri = 1 kOhm				
	Hall in	out signals A, B, C			TTL / +5 VDC; Ri = 1 kOhm				
		Set value			-10 to +10	) VDC; Ri = 20 kOhm			
		Enable			TTL / +24	VDC; Ri = 10 kOhm			
				Switches					
PWM-, Hall-, Enc, Torque-Mode					1	Not set / Set			
Set value via Offset					Offset / ext				
Phase					120° / 60°				
		Ipeak			on / off				
		Enable			on / off				
				Outputs					
	Auxiliary	voltage sources +5V			+5 VDC / 50 mA each				
Auxiliary voltage sources					±10 VDC / 10 mA				
Current Monitor Mon I					1 / 0.5 (V/A); Ri = 200 Ohm				
Speed Monitor Mon n					max.10 V at n max				
Supervision output /Error					Open Collector / Push Pull / TTL / +24 V				
				Display					
LEDs					green = Power / red = Error				
			Po	tentiometer					
	Function of Potentiometer				Offset; Scale; Gain; I max; Time				
			Ambi	ent conditions					
Operation temperature (°C)					-10 to +45				
Storage temperature (°C)					-40 to +85				
Humidity Range Not Condensing (%rel)					20 to 80 % rel.				
			Mode	of Operation					
PWM-co	mmutation amplifier	Spe	ed-control by hall	Speed	d-control by encoder	Torque-co	ntrol		

Available Accessories for EA47 (details see page 47)								
ASO-BM-70-30	CAxxxx	HA3008	HA3018	HA3028	IA310x	MA0025	WA2509	
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