

**DA47**

| Servo Amplifier



Power Supply Voltage	Nominal Current	Quadrants	Operation Mode					
			Torque Control	Analog Pos.	Speed Control			
					I x R Comp.	DC-Tacho	Voltage	Encoder
11 - 70	9 / 18	4	●		●	●	●	

**For Brush-Commutated PMDC Motors. Up to 1260 W.**

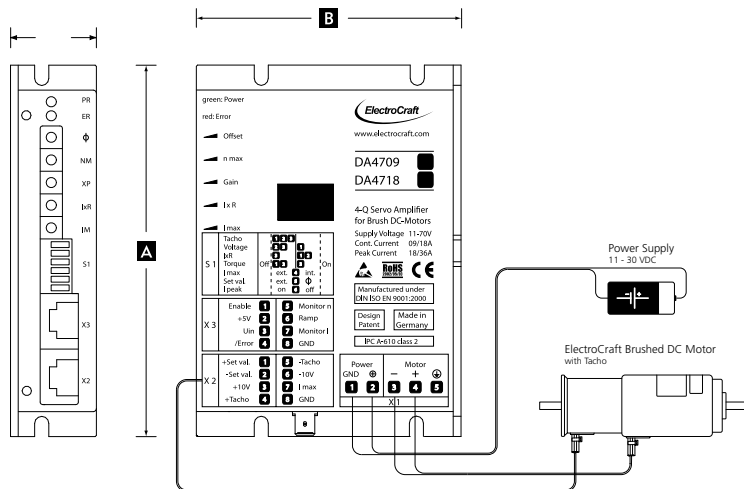
This four-quadrant PWM brush DC servo amplifier is fully enclosed in a small, rugged aluminum case which can be DIN-rail mounted or panel mounted for easy integration. The drive can be configured in the following modes of operation with simple dip switch settings: I/R compensation, Tach mode, Voltage mode and Torque mode. Both the 9 A and 18 A versions have twice the rated current available as peak current for intermittent overload conditions. This drive is protected against over-current and over-temperature and incorporates state of the art MOSFET technology for maximum efficiency. Connectivity is tool-free with RJ-45-connectors for input/outputs and push-type terminals for supply power and motor connections.

**Drive Model Example**

D Drive Technology   
 A Version   
 4 # Quadrants   
 7 Voltage 10x VDC   
 09 Current Amps

**DA47 Outline Drawing**

Model	A	B	C	Weight oz (g)
	Length in (mm)	Width in (mm)	Height in (mm)	
DA4709	4.69 (119)	3.35 (85)	1.08 (27.5)	7.76 (220)
DA4718				



DA47 Specifications							
Model Number	Power Supply Voltage (VDC)	Aux. Voltage Error (VDC)	Nominal Current (Amps)	Peak current (Amps)	Max. Power with Heatsink (Watts)	Frequency of power output stage (kHz)	Efficiency (%)
DA4709	11 - 30	5 - 30	9	18	630	50	95
DA4718	11 - 70	5 - 30	18	36	1260	50	95
Control Inputs							
Set value							-10 to +10 VDC; Ri = 20 kOhm
Tacho							max. 50 VDC; Ri = 50 kOhm
Enable							TTL / +24 VDC; Ri = 4.7 kOhm
Ramp							TTL / +24 VDC; Ri = 4.7 kOhm
I max							0 to +10 VDC; Ri > 100 kOhm
Switches							
Tacho-, Voltage-, IxR-, Torque-Mode							Not set / Set
Set value via Offset							extern / intern
I peak							on / off
Outputs							
Auxiliary voltage source							+5 VDC / 50 mA
Auxiliary voltage sources							±10 VDC / 20 mA
Monitor I							1 / 0.5 V/A; Ri = 100 Ohm
Monitor n							0.1 V / 1 Vmotor ; Ri = 100 Ohm
Supervisory output /Error							Open Collector / Push Pull / TTL / +24V; Ri = 50 Ohm
Display							
LEDs							green = Power / red = Error
Potentiometers							
Function of Potentiometer							Offset; nmax; Gain; IxR; I max
Ambient 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							
Speed-control by voltage	Torque-control	IxR-compensation	Speed-control by DC-tacho				

**Available Accessories for DA47 (details see page 39)**

