



110 mm x 75 mm x 30 mm
4.33" x 2.95" x 1.18"

Super Compact Servo Drives
For 400 VDC or 750 VDC



SimplIQ Trombone

A PCB-mounted servo drive that operates directly from a non-isolated 400 VDC or 750 VDC power source with up to 7 kW of continuous qualitative power

Trombone Digital Servo Drive

The Trombone is a new addition to Elmo's SimplIQ product suite - intelligent digital servo drives for sinusoidal, trapezoidal and DC motors.

This servo drive is PCB-mounted and it provides top performance, coupled with intelligent networking capabilities in a high level programming environment.

A Feature-rich Solution

The Trombone is truly feature-rich, combining high power density, programming flexibility, CANopen networking and numerous motion control features, resulting in a very effective solution for a wide variety of challenging applications.

There are two single DC bus options: 50 — 400 VDC and 95 — 750 VDC, with a built-in smart supply for controlling the back-up capabilities. The Trombone can also operate with a 24 VDC auxiliary power supply for the back-up features.

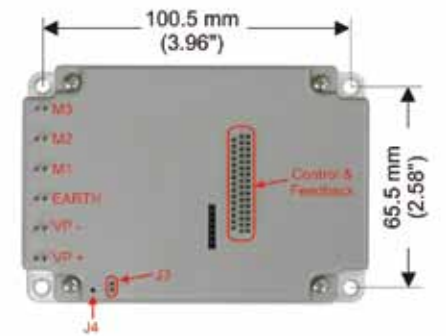
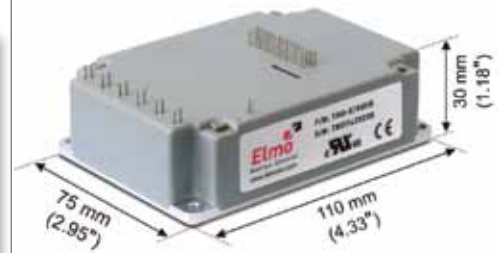
Trombone Highlights

- Based on SimplIQ core motion control technology
- Ultra-compact, highest power density
- PCB-mounted
- Highly efficient
- Supports a wide variety of feedback sensors
- Vector control sinusoidal commutation
- Advanced filtering and velocity gain scheduling for enhanced dynamic performance

SimplIQ Trombone

Environmental Conditions

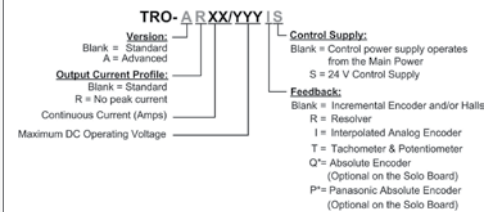
Feature	Operating Conditions	Range
Ambient Temperature Range	Non-Operating Conditions	-20 °C to 85 °C (-4 °F to 185 °F)
	Operating Conditions	0 °C to 40 °C (32 °F to 104 °F)
Altitude	Non-Operating Conditions	Unlimited
	Operating Conditions	-400 m to 10,000 m (-1,000 ft to 30,000 ft) Higher altitudes available on request
Relative Humidity	Non-Operating Conditions	Up to 95% relative humidity non-condensing at 35 °C (95 °F)
	Operating Conditions	Up to 95% relative humidity non-condensing at 25 °C (77 °F), up to 90% relative humidity non-condensing at 42 °C (108 °F)



Electrical Specifications

Feature	12/400	R17/400	8/800	R11/800
Minimum supply voltage (VDC)	S suffix in P/N*: 50 No S suffix in P/N: 100		S suffix in P/N*: 95 No S suffix in P/N: 200	
Nominal supply voltage (VDC)	325		560	
Maximum supply voltage (VDC)	400		750	
Maximum cont. electrical output power from the drive	Up to 7 kW of continuous qualitative power			
STO Inputs (optional)	2			
Digital In / Digital Out / Analog In	6/4/1			
Efficiency at rated conditions	> 98%			
Auxiliary supply voltage (external option)	18V - 32V			
Auxiliary power supply (ext.)	≤ 3 VA without external loading ≤ 7 VA with full external loading			
Continuous current limit (Ic). Amplitude of sinusoidal or DC trapezoidal commutation (A)	12	17	8	11
Continuous RMS sinusoidal commutation (Ic) (A)	2 x Ic	NA	2 x Ic	NA
Weight	315 g (11.1 oz)			
Dimensions	110 x 75 x 30 mm (4.33" x 2.95" x 1.18")			
Mounting method	PCB Mounted			

*See the part number to the right of this table. The S suffix appears in models where there is a 24 V control supply.



Elmo
Motion Control

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