

APPLICATIONS

- > Current amplifier for M-FSM mechanism

KEY FEATURES

- > Compact size

RELATED PRODUCT

- > M-FSM



SPECIFICATIONS

> Preliminary data

PARAMETER	TYPICAL VALUE	UNIT
> General		
Function	All-in-one magnetic driver and controller	
Number of control channels	2	
Digital communication	RS422, USB	
> Digital control		
Control strategy	Specific Control	
Sampling rate	100	kSps
Digital resolution	16	bits
> Analog inputs		
Number of analog inputs	4	
Control input voltage (Vin+ - Vin-)	-10 ... +10	V
Control input impedance	10	kΩ
> Output		
Output voltage range ⁽¹⁾	-48 ... +48	V
RMS output current	±7	A
Peak output current	±10	A
Output current offset ⁽²⁾	<100	mA
Minimum output load	0	μH
> Power supply		
Supply voltage range	24 ... 48	Vdc
Max. input current	4	A

> Power amplifier

Number of channels	2	
Switching frequency	100	kHz
Max. continuous output apparent power ⁽³⁾	2x 240	VA
Max. continuous output active power	48 ... 96	W
Gain	1	A/V
Gain linearity error	0.1	%

> Protections

Overcurrent (Actuator & Amplifier), Overtemperature (Amplifier), Reverse Polarity, Overvoltage (input), Undervoltage (input)

ANNOTATIONS

Guaranteed in labs environment

(1) Limited by supply voltage

(2) Autocalibration is done at startup

(3) VRMS x IRMS

MISCELLANEOUS

PARAMETER	TYPICAL VALUE	UNIT
Mass	0.92	kg
Dimensions	200x151x81 (WxDxH)	mm ³
Cooling	Natural convection	
Operating temperature range	0 ... 40	°C
Storage temperature range	-10 ... 70	°C

INTERFACES

- > **Control Input** DB9
- > **Power input connector** Terminal
- > **Power output connector** DSUB9 Female connector

INCLUDED ACCESSORIES

- > **Power input mating connector** 1777992 (Phoenix Contact)
- > **Power output mating connector** DSUB9 Male connector

OPTIONS

- > **Actuator cable** Specific length on request

DRAWINGS

