

## APPLICATIONS

- > Current amplifier for M-FSM mechanism

## KEY FEATURES

- > Compact size

## RELATED PRODUCT

- > M-FSM



## SPECIFICATIONS

### > Preliminary data

PARAMETER	TYPICAL VALUE	UNIT
<b>&gt; General</b>		
Function	All-in-one magnetic driver and controller	
Number of control channels	2	
Digital communication	RS422, USB	
<b>&gt; Digital control</b>		
Control strategy	Specific Control	
Sampling rate	100	kSps
Digital resolution	16	bits
<b>&gt; Analog inputs</b>		
Number of analog inputs	4	
Control input voltage (Vin+ - Vin-)	-10 ... +10	V
Control input impedance	10	kΩ
<b>&gt; Output</b>		
Output voltage range <sup>(1)</sup>	-48 ... +48	V
RMS output current	±7	A
Peak output current	±10	A
Output current offset <sup>(2)</sup>	<100	mA
Minimum output load	0	μH
<b>&gt; Power supply</b>		
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 <sup>(3)</sup>	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 <sup>3</sup>
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

