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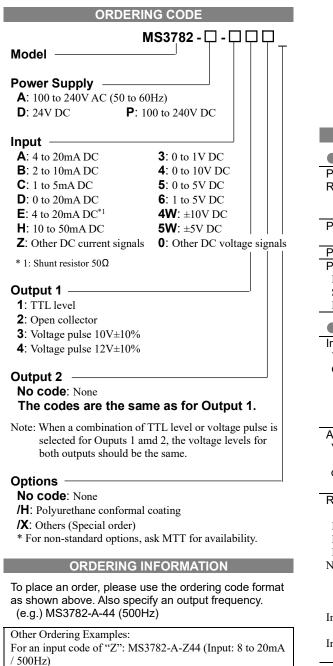
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Product Specification SheetModel: MS3782Slim Plug-In PWM Converter with Isolated Single/Dual Output

## DESCRIPTION

The MS3782 is a slim, plug-in PWM converter that converts DC current or voltage input signals into PWM signals and provides isolated single or dual output.



			125 (mm)	
SF	PECIFICA	TIONS		
POWER SECT	ION			
Power		V AC: 85 to	264V AC (47	
Requirements	to 63Hz)			
		24V DC±10%		
Daviar Canaitivity		V DC: 85 to		
Power Sensitivity	power sup	$1\pm0.1\%$ of s	pan for each	
Power Line Fuse		se is installed	d (standard)	
Power Consumption			a (Stalldard).	
	-240V AC	24V DC	100-240V DC	
	OVA max	1.8W max	2.0W max	
	5VA max	2.0W max	2.5W max	
	DN			
nput Resistance				
Voltage Input (DC)	With or w	vithout powe	r: $1M\Omega$ min.	
Current Input (DC)	4 to 20m/	A (std.)	250Ω	
	2 to 10m/	A	250Ω	
	1 to 5 mA	1	100Ω	
	0 to 20m/		250Ω	
	10 to 50m	nA	10Ω	
Allowable Input Volt			·~ · ·	
Voltage Input Model			ous. (Standard	
Comment Immost Madal	tor a span	up to 10V)		
Current Input Model		max., contir for 4 to 20m		
Ranges Available	(Stalidard	101 4 10 2011	A)	
	Current S	Sional	Voltage Signal	
Input Range (DC)	-100 to 1		-10 to 10V	
Input Range (DC)	$100 \mu A^{*1}$ to		$00 \text{mV}^{2}$ to 20V	
Input Bias	-100 to 1		-100 to 100%	
Note: For any input ra				
the input spans				
from (*1)200µA				
respectively.				
nput Spec. Ex.1: For	1	out, the input	span is 5V and	
	bias +60%.			
nput Spec. Ex. 2: For			ıt span is 5V	
and	the bias -10	00%.		

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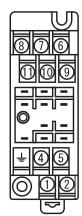
500Hz)

For an input code of "0": MS3782-A-011 (Input: 0 to 8V/

OUTPUT SEC	TION
Output Signal	PWM output ON duty 80 to 0%
e alpar e griai	0% input: Output duty 80%
	100% input: Output duty 0%
(Example 1) Voltage	
(Example 1) voluge	$ON = 12V \pm 10\%$
	$OFF = 0V \pm 1V$
(Example 2) Open c	
(Example 2) Open e	ON = Low
	OFF = High
Note: For any input 1	ess than 0%, the output duty will be
	ny input more than 100%, it will be
0%.	ny mput more than 10070, it will be
Maximum Output L	ead
TTL Level	Maximum output 10mA @ 3.5V
Voltage Pulse 10V	Maximum output TomA ( $@$ 5.5 V Maximum output 7mA ( $@$ ±10%
Voltage Pulse 12V	Single output model: Maximum
voltage ruise 12 v	output 15mA $@\pm 10\%$
	Dual output model: Maximum output
	$7 \text{mA} @ \pm 10\%$
Maximum Pating	$\frac{7 \text{mA}(\omega) \pm 10\%}{\text{Open collector: 30V, 100mA}}$
Maximum Rating Output	Customer-specified value $\pm 30\%$
Frequency	Specify between 10Hz and 1kHz.
Zero Adjustment	Approx. $\pm 5\%$ of span.
	(Adjustable by the front-accessible
Chan Adjustment	trimmer.)
Span Adjustment	Approx. $\pm 5\%$ of span.
	(Adjustable by the front-accessible
	trimmer.)
PERFORMAN	
Accuracy Rating	Better than $\pm 1.5\%$ of span (at
	25°C±5°C).
Temperature	Better than $\pm 0.2\%$ of span per 10°C
Effect	change in ambient.
Response Time	1s max. (0 to 90%) with a step input at $100\%$ .
Isolation	4-way isolation between input, output
Solution	1, output 2, and power.
Insulation	$100M\Omega$ min. (@ 500V DC) between
Resistance	input, output 1, output 2, power, and
	ground.
Dielectric	Input / [Output 1, Output 2] / [Power,
Strength	Ground]: 2000V AC for 1 minute
Subligat	(Cutoff current: 0.5mA)
	Power / Ground: 2000V AC for 1
	minute (Cutoff current: 5mA)
	Output 1 / Output 2: 500V AC for 1
	minute (Cutoff current: 0.5mA)
Surge Withstand	Tested as per ANSI/IEEE
	C37.90.1-1989.
Capability	Ambient temperature: -5 to 55°C
Operating Environment	Humidity: 5 to 90% RH
	(non-condensing)
Storago	-10 to 60°C
Storage	-10 10 00 C
Temperature	

PHYSICAL	
Installation	Wall/DIN rail mounting
Wiring	M3.5 screw terminal connection
	(with a power terminal block cover &
	drop-proof screws)
Screwing Torque	0.8 to 1.0 [Nm] * Recommended
External	$W29 \times H86 \times D125 mm$
Dimensions	(including the mounting screw and
	socket)
Weight	Main unit: 120g max.
	Socket: 80g max.
MATERIAL	
Housing	ABS resin (UL 94V-0)
Terminal Block	PBT resin (UL 94V-0)
Terminal Block	PC resin (UL 94V-2)
Cover	
DIN Rail Stopper	PP resin (UL 94HB)
Screw Terminal	Nickel-plated steel
Contacts Material	Brass with 0.2µm gold plating
and Finish	
Printed Circuit	Glass fabric, epoxy resin
Board	(FR-4: UL 94V-0)

## TERMINAL ASSIGNMENTS



$\bigcirc$	P (+) POWER
2	
ļ	GND
4	+ OUTPUT 1
5	– OUTPUT 1
6	N.C.
$\bigcirc$	+ OUTPUT 2
8	– OUTPUT 2
9	+ INPUT
10	– INPUT
(1)	N.C.

## **BLOCK DIAGRAM**

