Features
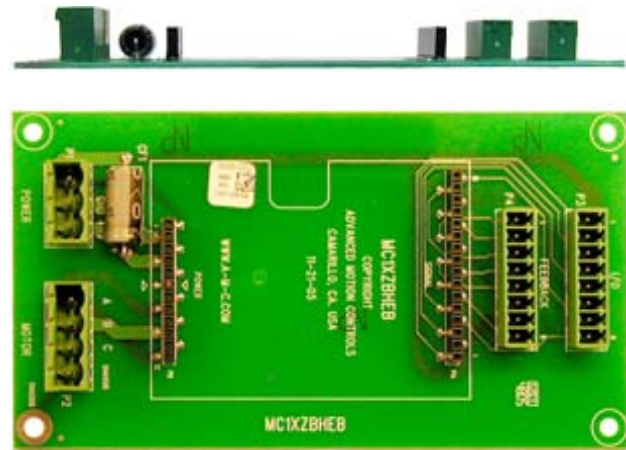
- Mounts ZBH type drives

- Single axis mounting card

- All detachable connections

- On-board bus capacitance

- Screw terminal mating connectors included

- Standard DIN tray dimensions

Drive Compatibility

Drives Supported	ZBH6A6
	ZBH12A8
Axis Supported	1

Accessories

Description

The MC1XZBHE mounting card is designed to host a ZBH type servo drive. This mounting card offers convenient quick-disconnect connectors (mating screw terminals included) for easy interfacing.

SPECIFICATION SUMMARY

Mechanical Specifications	
Drive Power Connector: P1	3-port, 5.08 mm spaced insert connector
Motor Power Connector: P2	4-port, 5.08 mm spaced insert connector
Input/Output Connector: P3	8-port, 3.5 mm spaced insert connector
Feedback Connector: P4	8-port, 3.5 mm spaced insert connector
Mounting Signal Connector: PA	16-pin, 2.54 mm pitch socket
Mounting Power Connector: PB	12-pin, 2.54 mm pitch socket
Size (L x W x H)	5.22 x 2.48 x 0.56 inches 132.5 x 63.0 x 14.3 mm
Weight	(TBA)

PIN FUNCTIONS

P1 – Drive Power Connector			
Pin	Name	Description	I/O
1	N/C	Not Connected	-
2	GND	Ground	GND
3	+HV	DC motor power input. This input is used to supply power to the motor.	I

P2 – Motor Power Connector			
Pin	Name	Description	I/O
1	MOTOR A	Motor phase A	O
2	MOTOR B	Motor phase B	O
3	MOTOR C	Motor phase C	O
4	CHASSIS	Chassis	PE

P3 – Input/Output Connector			
Pin	Name	Description	I/O
1	REF+ IN	Positive terminal of differential analog input	I
2	GROUND	Ground	GND
3	REF- IN	Negative terminal of differential analog input	I
4	CURRENT MONITOR	Output voltage proportional to motor output current. Scaling: 3.85 A/V.	O
5	INHIBIT IN	Inhibit/enable input.	I
6	CURRENT REFERENCE	Monitors the signal at the input of the internal current amplifier stage. Scaling: 1.6 A/V.	O
7	FAULT OUT	Logic output for indication of a drive fault.	O
8	OFFSET	Connection to external resistance for command offset adjustments.	-

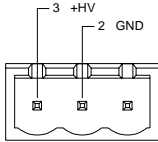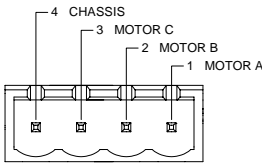| P4 – Feedback Connector			
Pin	Name	Description	I/O
1	RESERVED	Reserved.	I
2	RESERVED	Reserved.	I
3	VELOCITY MONITOR	When used in current or Hall velocity mode, voltage is proportional to the speed of the motor. In open-loop mode, voltage is proportional to the PWM duty cycle. Scaling: 100 Hz/V	GND
4	HALL 1	Hall sensor inputs for commutation.	I
5	HALL 2		I
6	HALL 3		I
7	GND	Ground	GND
8	+5V	5V output from 5V logic supply	O

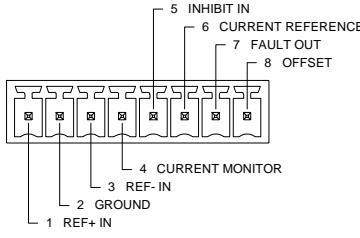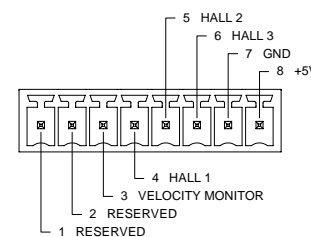| PA – Mounting Signal Connector |
|---|
| This connector mates directly to the drive. For pin functions refer to the drive datasheet. |

PB – Mounting Power Connector
This connector mates directly to the drive. For pin functions refer to the drive datasheet.

CONNECTOR INFORMATION

P1 – Drive Power Connector	
Connector Information	3-port, 5.08 mm spaced insert connector
Mating Connector Example	Phoenix Contact: P/N 1757022 or 1777293 (vertical screw terminal)

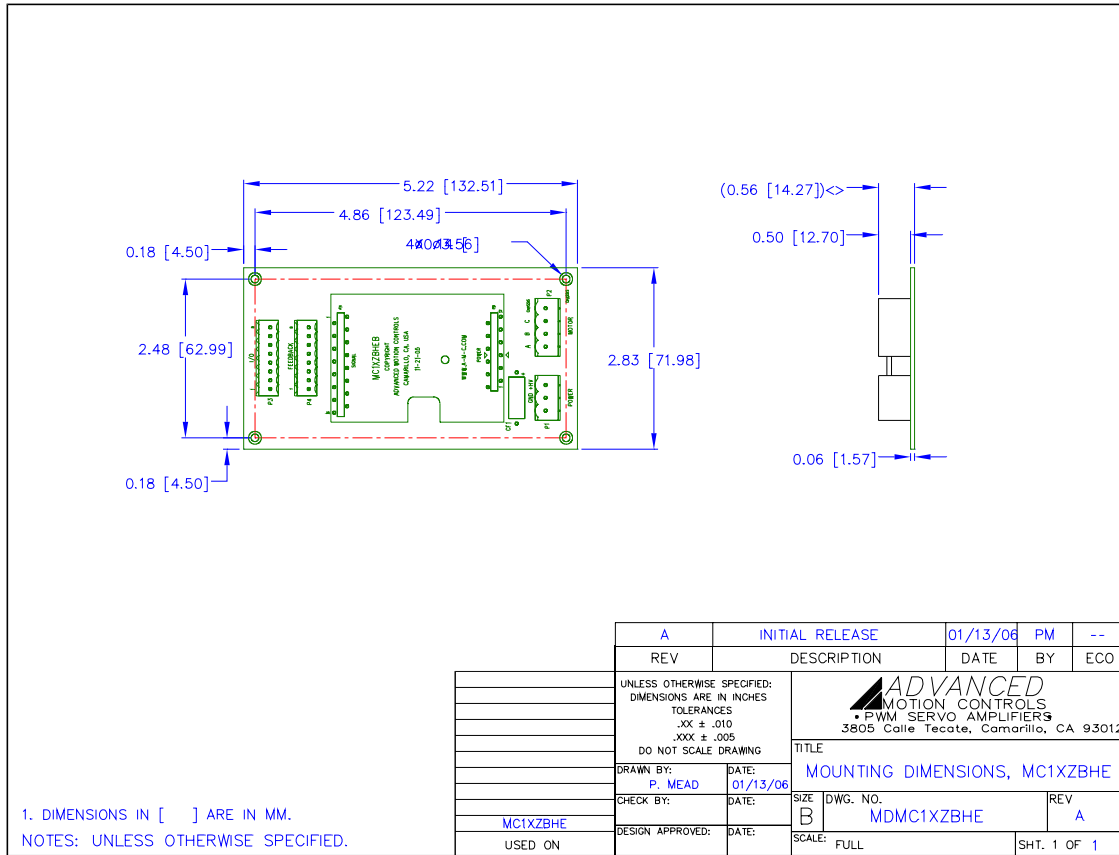| P2 – Motor Power Connector	
Connector Information	4-port, 5.08 mm spaced insert connector
Mating Connector Example	Phoenix Contact: P/N 1757035 or 1777303 (vertical screw terminal)

P3 – Input/Output Connector	
Connector Information	8-port, 3.5 mm spaced insert connector
Mating Connector Example	Phoenix Contact: P/N 1840421

5 INHIBIT IN
6 CURRENT REFERENCE
7 FAULT OUT
8 OFFSET

4 CURRENT MONITOR
3 REF- IN
2 GROUND
1 REF+ IN

P4 – Feedback Connector	
Connector Information	8-port, 3.5 mm spaced insert connector
Mating Connector Example	Phoenix Contact: P/N 1840421

5 HALL 2
6 HALL 3
7 GND
8 +5V

4 HALL 1
3 VELOCITY MONITOR
2 RESERVED
1 RESERVED

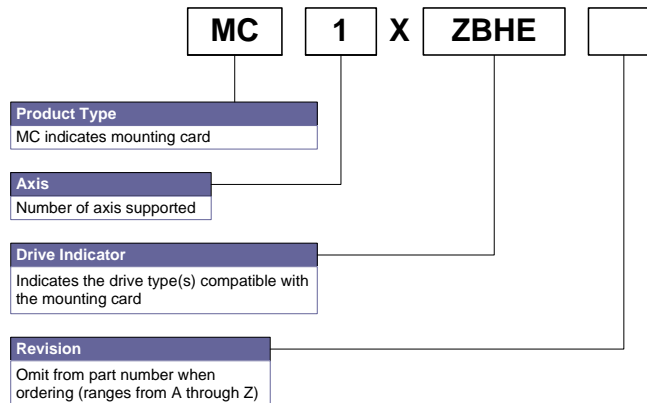| P1 – Mounting Signal Connector	
Connector Information	16-pin, 2.54 mm pitch socket
Mating Connector Example	No mating connector required. Mate directly to drive.

P2 – Mounting Power Connector	
Connector Information	12-pin, 2.54 mm pitch socket
Mating Connector Example	No mating connector required. Mate directly to drive.

MOUNTING DIMENSIONS

1. DIMENSIONS IN [   ] ARE IN MM.
NOTES: UNLESS OTHERWISE SPECIFIED.

A	INITIAL RELEASE	01/13/06	PM	--
REV	DESCRIPTION	DATE	BY	ECO

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES
.XX ± .010
.XXX ± .005
DO NOT SCALE DRAWING

ADVANCED MOTION CONTROLS
• PWM SERVO AMPLIFIERS
3805 Calle Tecate, Camarillo, CA 93012

TITLE: MOUNTING DIMENSIONS, MC1XZBHE

DRAWN BY: P. MEAD   DATE: 01/13/06

CHECK BY: DATE:

DESIGN APPROVED: DATE:

MC1XZBHE   USED ON

SIZE: B   DWG. NO.: MDMC1XZBHE   REV: A

SCALE: FULL   SHT. 1 OF 1

ORDERING INFORMATION

MC	1	X	ZBHE	

Product Type
MC indicates mounting card

Axis
Number of axis supported

Drive Indicator
Indicates the drive type(s) compatible with the mounting card

Revision
Omit from part number when ordering (ranges from A through Z)

Notes:

Revision

This letter is not required when placing an order.
Some letters are skipped when assigning revisions.