

#### Description

The DZCANTU-020B200 digital servo drive is designed to drive brushed and brushless servomotors from a compact form factor ideal for embedded applications. This fully digital drive operates in torque, velocity, or position mode and employs Space Vector Modulation (SVM), which results in higher bus voltage utilization and reduced heat dissipation compared to traditional PWM. The command source can be generated internally or can be supplied externally. In addition to motor control, this drive features dedicated and programmable digital and analog inputs and outputs to enhance interfacing with external controllers and devices.

The DZCANTU-020B200 features a CANopen interface for networking, and a USB interface for drive configuration and setup. Drive commissioning is accomplished using DriveWare® 7, available for download at <a href="https://www.a-m-c.com">www.a-m-c.com</a>.

All drive and motor parameters are stored in non-volatile memory.

Power Range			
Peak Current	20 A (14.1 A <sub>RMS</sub> )		
Continuous Current	10 A (10 A <sub>RMS</sub> )		
Supply Voltage	40 - 175 VDC		



#### **Features**

- Four Quadrant Regenerative Operation
- ▲ Space Vector Modulation (SVM) Technology
- ▲ Fully Digital State-of-the-art Design
- Programmable Gain Settings
- Fully Configurable Current, Voltage, Velocity and Position Limits

- PIDF Velocity Loop
- ▲ PID + FF Position Loop
- 12-bit Analog to Digital Hardware
- On-the-Fly Mode Switching

## MODES OF OPERATION

- Profile Current
- Profile Velocity
- Profile Position
- Cyclic Synchronous Current Mode
- Cyclic Synchronous Velocity Mode
- Cyclic Synchronous Position Mode

### **COMMAND SOURCE**

- ±10 V Analog
- Encoder Following
- Over the Network
- Sequencing
- Indexing
- Jogging

#### On-the-Fly Gain Set Switching

FEEDBACK SUPPORTED (FIRMWARE DEPENDENT)

- Halls
- Incremental Encoder
- Auxiliary Incremental Encoder
- 1Vp-p Sine/Cosine Encoder (see note 5 on page 3)
- Absolute Encoder (Heidenhain EnDat® or Stegmann Hiperface® or BiSS C-Mode)
- ±10 VDC Position
- Tachometer (±10 VDC)

### INPUTS/OUTPUTS

- 1 Programmable Analog Input (12-bit Resolution)
- 5 Programmable Digital Inputs (Differential)
- 3 Programmable Digital Inputs (Single-Ended)
- 5 Programmable Digital Outputs (Single-Ended)
- 3 High Speed Captures

## **COMPLIANCES & AGENCY APPROVALS**

RoHS

UL/cUL Pending

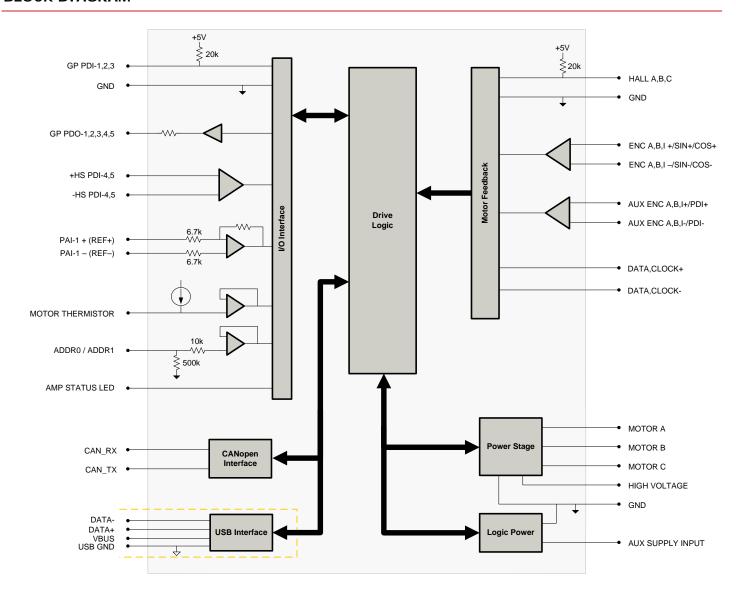


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# **BLOCK DIAGRAM**



# **Information on Approvals and Compliances**



RoHS (Reduction of Hazardous Substances) is intended to prevent hazardous substances such as lead from being manufactured in electrical and electronic equipment.

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# **SPECIFICATIONS**

Control Specifications  Description Units Value  Communication Interfaces - CANopen (USB for configuration)  Command Sources - ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging  Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)  Commutation Methods - Sinusoidal, Trapezoidal	5		Specifications		
DC Bus Over Voltage Limit  DC Bus Under Voltage Limit  VDC  37  Logic Supply Voltage  VDC  40 - 175  A (Arms)  20 (14.1)  Maximum Peak Output Current <sup>1</sup> A (Arms)  A (Arms)  10 (10)  Maximum Continuous Output Current <sup>2</sup> A (Arms)  Maximum Continuous Output Power  M 1663  Maximum Power Dissipation at Continuous Current  W 88  Internal Bus Capacitance <sup>1</sup> Minimum Load Inductance (Line-To-Line) <sup>1</sup> Minimum Load Inductance (Line-To-Line) <sup>1</sup> Minimum Output PWM Duty Cycle  Maximum Output PWM Duty Cycle  Maximum Output PWM Duty Cycle  Maximum Output PWM Duty Cycle  Communication Interfaces  Description  Communication Interfaces  Control Specifications  Units  Value  Control Specifications  Units  Control Specifications  Units  Control Specifications  Units  Value  Communication Interfaces  Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BisS C-Mode), ±10 VDC Position, Tachometric (±10 VDC)  Commutation Methods  - Sinusoidal, Trapezoidal	The state of the s		1000		
DC Bus Under Voltage Limit  VDC 37  Logic Supply Voltage  VDC 40 - 175  Maximum Peak Output Current¹  A (Arms) 20 (14.1)  Maximum Continuous Output Current²  A (Arms) 10 (10)  Maximum Power Dissipation at Continuous Current  W 88  Internal Bus Capacitance³  Minimum Load Inductance (Line-To-Line)⁴  Witching Frequency  Maximum Output PWM Duty Cycle  White 20  Maximum Output PWM Duty Cycle  White 20  Maximum Output PWM Duty Cycle  Communication Interfaces  Description  Communication Interfaces  Control Specifications  Units  Value  Communication Interfaces  Control Specifications  Units  Value  Communication Interfaces  Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BISS C-Mode), ±10 VDC Position, Tachometre (±10 VDC)  Commutation Methods  - Sinusoidal, Trapezoidal					
Logic Supply Voltage  VDC  VDC  VDC  VDC  VDC  VDC  VDC  VD	S S S S S S S S S S S S S S S S S S S				
Maximum Peak Output Current¹       A (Arms)       20 (14.1)         Maximum Continuous Output Current²       A (Arms)       10 (10)         Maximum Continuous Output Power       W       1663         Maximum Power Dissipation at Continuous Current       W       88         Internal Bus Capacitance³       μF       145         Minimum Load Inductance (Line-To-Line)⁴       μH       250         Switching Frequency       kHz       20         Maximum Output PWM Duty Cycle       %       85         Control Specifications         Description       Units       Value         Communication Interfaces       -       CANopen (USB for configuration)         Command Sources       -       ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging         Feedback Supported (Firmware Dependent)⁵       -       ±10 V Analog, Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)         Commutation Methods       -       Sinusoidal, Trapezoidal	-	-			
Maximum Continuous Output Current²       A (Arms)       10 (10)         Maximum Continuous Output Power       W       1663         Maximum Power Dissipation at Continuous Current       W       88         Internal Bus Capacitance³       μF       145         Minimum Load Inductance (Line-To-Line)⁴       μH       250         Switching Frequency       kHz       20         Maximum Output PWM Duty Cycle       %       85         Control Specifications         Units       Value         Communication Interfaces       -       CANopen (USB for configuration)         Command Sources       -       ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging         Feedback Supported (Firmware Dependent)⁵       -       Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)         Commutation Methods       -       Sinusoidal, Trapezoidal					
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Maximum Power Dissipation at Continuous Current     W     88       Internal Bus Capacitance³     μF     145       Minimum Load Inductance (Line-To-Line)⁴     μH     250       Switching Frequency     kHz     20       Maximum Output PWM Duty Cycle     %     85       Control Specifications       Units     Value       Communication Interfaces     -     CANopen (USB for configuration)       Command Sources     +10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging       Feedback Supported (Firmware Dependent)⁵     -     Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)       Commutation Methods     -     Sinusoidal, Trapezoidal	·		· ·		
Internal Bus Capacitance³  µF  145  Minimum Load Inductance (Line-To-Line)⁴  µH  250  Switching Frequency  kHz  20  Maximum Output PWM Duty Cycle  %  85  Control Specifications Units  Value  Communication Interfaces  CANopen (USB for configuration)  Command Sources  Feedback Supported (Firmware Dependent)⁵  Feedback Supported (Firmware Dependent)⁵  Commutation Methods  µF  145  145  145  145  145  145  140  141  145  145	·				
Minimum Load Inductance (Line-To-Line) <sup>4</sup> μH     250       Switching Frequency     kHz     20       Maximum Output PWM Duty Cycle     %     85       Control Specifications       Units     Value       Communication Interfaces     -     CANopen (USB for configuration)       Command Sources     -     ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging       Feedback Supported (Firmware Dependent) <sup>5</sup> -     Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)       Commutation Methods     -     Sinusoidal, Trapezoidal	·				
Switching Frequency  Maximum Output PWM Duty Cycle  **  **  **  **  **  **  **  **  **	·	· ·	- 1		
Maximum Output PWM Duty Cycle  Control Specifications Units Value  Communication Interfaces  CaNopen (USB for configuration)  Command Sources  - CANopen (USB for configuration)  Command Sources  - ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging  Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)  Commutation Methods  - Sinusoidal, Trapezoidal		-	**		
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Description         Units         Value           Communication Interfaces         -         CANopen (USB for configuration)           Command Sources         -         ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging           Feedback Supported (Firmware Dependent) <sup>5</sup> -         Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)           Commutation Methods         -         Sinusoidal, Trapezoidal	Maximum Output PWM Duty Cycle		1.77		
Communication Interfaces  - CANopen (USB for configuration)  Command Sources  - ±10 V Analog, Encoder Following, Over the Network, Sequencing, Indexing, Jogging  Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)  Commutation Methods  - Sinusoidal, Trapezoidal			·		
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Feedback Supported (Firmware Dependent) 5 - Auxiliary Incremental Encoder, Halls, Incremental Encoder, 1Vp-p Sine/Cosine Encoder, Absolute Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)  Commutation Methods - Sinusoidal, Trapezoidal		-			
Feedback Supported (Firmware Dependent) 5 - Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position, Tachometer (±10 VDC)  Commutation Methods - Sinusoidal, Trapezoidal	Command Sources	-			
	Feedback Supported (Firmware Dependent) 5	-	Encoder (Heidenhain EnDat®, Stegmann Hiperface®, or BiSS C-Mode), ±10 VDC Position,		
	Commutation Methods	-			
Modes of Operation - Profile Current, Profile Velocity, Profile Position, Cyclic Synchronous Current, Cyclic Synchronous Velocity, Cyclic Synchronous Position	Modes of Operation	-	Profile Current, Profile Velocity, Profile Position, Cyclic Synchronous Current, Cyclic Synchronous Velocity, Cyclic Synchronous Position		
Motors Supported - Closed Loop Vector, Single Phase (Brushed, Voice Coil, Inductive Load), Three Phase (Brushless)	Motors Supported	-	Closed Loop Vector, Single Phase (Brushed, Voice Coil, Inductive Load), Three Phase (Brushless)		
Hardware Protection 40+ Configurable Functions, Over Current, Over Temperature (Drive & Motor), Over Voltage, Short Circuit (Phase-Phase & Phase-Ground), Under Voltage	Hardware Protection	-			
Programmable Digital Inputs/Outputs (PDIs/PDOs) - 8/5	Programmable Digital Inputs/Outputs (PDIs/PDOs)	-	8/5		
Programmable Analog Inputs/Outputs (PAIs/PAOs) - 1/0	Programmable Analog Inputs/Outputs (PAIs/PAOs)	-	1/0		
Primary I/O Logic Level - 5V TTL	Primary I/O Logic Level	-	5V TTL		
Current Loop Sample Time µs 50	Current Loop Sample Time	μs	50		
Velocity Loop Sample Time µs 100	Velocity Loop Sample Time	μs	100		
Position Loop Sample Time µs 100	Position Loop Sample Time	μs	100		
Maximum Encoder Frequency MHz 20 (5 pre-quadrature)	Maximum Encoder Frequency	MHz	20 (5 pre-quadrature)		
Mechanical Specifications		Mechanica	al Specifications		
Description Units Value	Description	Units	Value		
Agency Approvals - RoHS, UL/cUL Pending, CE Pending	Agency Approvals	-	RoHS, UL/cUL Pending, CE Pending		
Size (H x W x D) mm (in) 88.9 x 63.5 x 23.5 (3.5 x 2.5 x 0.93)	Size (H x W x D)	mm (in)	88.9 x 63.5 x 23.5 (3.5 x 2.5 x 0.93)		
Weight g (oz) 126.8 (4.47)	Weight	g (oz)	126.8 (4.47)		
Baseplate Operating Temperature Range <sup>6</sup> °C (°F) 0 - 75 (32 - 167)	Baseplate Operating Temperature Range <sup>6</sup>	°C (°F)	0 - 75 (32 - 167)		
Storage Temperature Range         °C (°F)         -20 - 85 (-4 - 185)	Storage Temperature Range	°C (°F)	-20 - 85 (-4 - 185)		
Relative Humidity - 0 - 90% non-condensing	Relative Humidity	-	0 - 90% non-condensing		
Altitude m (ft) 0 - 4000 (0 - 13123)	Altitude	m (ft)	0 - 4000 (0 - 13123)		
Cooling System - Natural Convection	Cooling System	-	` '		
Form Factor - PCB Mounted	Form Factor	-	PCB Mounted		
P1 Connector - 68-pin, 1.27 mm spaced, dual-row header	P1 Connector	-	68-pin, 1.27 mm spaced, dual-row header		
P2 Connector - 50-pin, 2.0 mm spaced, dual-row header					

# Notes

- Capable of supplying drive rated peak current for 2 seconds with 10 second foldback to continuous value. Longer times are possible with lower current limits. Continuous  $A_{rms}$  value attainable when RMS Charge-Based Limiting is used. Additional 100  $\mu$ F / 200 V external bus capacitor between High Voltage and Power Ground as close to the drive as possible required.
- Lower inductance is acceptable for bus voltages well below maximum. Use external inductance to meet requirements. Contact *ADVANCED* Motion Controls for 1Vp-p Sine/Cosine Encoder feedback availability.

  Additional cooling and/or heatsink may be required to achieve rated performance.

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# **PIN FUNCTIONS**

Pin	Name	Description / Notes	<b>P1 - Si</b> g
1	RESERVED	Reserved. Do not connect.	-
3	PAI-1-	Differential Programmable Analog Input or	1
5	PAI-1+	Reference Signal Input (12-bit Resolution)	1
7	GROUND	Ground	GND
9	MOT ENC B- / COS-	Primary Incremental Encoder or Cos Input from	1
11	MOT ENC B+ / COS+	feedback device (Absolute or Sin/Cos 1Vp-p)	1
13	GROUND	Ground	GND
15	MOTOR THERMISTOR	Motor Thermistor Input	I
17	MOT ENC CLK-	Serial Interface (RS485) for absolute feedback	I/O
19	MOT ENC CLK+	device	I/O
21	MOT ENC I-	Differential Incremental Encoder Channel I	1
23	MOT ENC I+	Dinerental Inciental Encoder Chaillel I	1
25	AUX ENC I-	Auxiliary Incremental Encoder Channel I or	1
27	AUX ENC I+	Differential Programmable Digital Input 8	I
29	+5V OUT	+5V User Supply	0
31	HALL C	Single-ended Commutation Sensor Inputs	I
33	PDI-5-	Differential Programmable Digital Input	I
35	PDI-5+	(High Speed Capture)	I
37	GP PDO-5	Programmable Digital Output	0
39	GP PDO-4	Programmable Digital Output	0
41	GP PDO-3	Programmable Digital Output	0
43	GP PDO-2	Programmable Digital Output	0
45	GP PDO-1	Programmable Digital Output	0
47	RESERVED	Reserved. Do not connect.	-
49	+5V USB OUT	USB Supply	0
51	GND USB	USB Ground	UGND
53	GROUND	Ground	GND
55	RESERVED	Reserved. Do not connect.	-
57	RESERVED	INGSGIVEG. DU HUL CUIHIEGL.	-
59	GROUND	Ground	GND
61	RESERVED		-
63	RESERVED	Reserved. Do not connect.	-
65	RESERVED		-
67	GROUND	Ground	GND

Pin	Name	Description / Notes	1.
2	CAN BAUD	CAN Bus Bit Rate Selector	
4	ADDR1	CAN Bus Address Selector	
6	ADDR0		
8	GROUND	Ground	G
10	MOT ENC A- / SIN-	Primary Incremental Encoder or Sin Input from	
12	MOT ENC A+ / SIN+	feedback device (Absolute or Sin/Cos 1Vp-p)	
14	+5V OUT	+5V User Supply	
16	GROUND	Ground	G
18	MOT ENC DATA-	Serial Interface (RS485) for absolute feedback	- 1
20	MOT ENC DATA+	device	- 1
22	AUX ENC B-	Auxiliary Incremental Encoder Channel B or	
24	AUX ENC B+	Differential Programmable Digital Input 7	
26	AUX ENC A-	Auxiliary Incremental Encoder Channel A or	
28	AUX ENC A+	Differential Programmable Digital Input 6	
30	HALL B	Single-ended Commutation Sensor Inputs	
32	HALL A		
34	PDI-4-	Differential Programmable Digital Input	
36	PDI-4+	(High Speed Capture)	
38	GP PDI-3	Programmable Digital Input (High Speed Capture)	
40	GP PDI-2	Programmable Digital Input	
42	GP PDI-1	Programmable Digital Input	
44	AMP STATUS LED-	AMP Status LED Output for Bi-Color LED. See	
46	AMP STATUS LED+	Pin Details below.	
48	RESERVED	Reserved. Do not connect.	
50	DATA- USB	USB Data Channel	I
52	DATA+ USB	USB Data Charinei	I
54	GROUND	Ground	G
56	CAN_L	CAN_L bus line (dominant low)	- 1
58	CAN_H	CAN_H bus line (dominant high)	
60	RESERVED		
62	RESERVED	Reserved. Do not connect.	
64	RESERVED	Reserved. Do not connect.	
66	RESERVED		
68	GROUND	Ground	G

P2 - Power Connector				
Pin	Name	Description / Notes	1/0	
1	AUX SUPPLY INPUT	Auxiliary Supply Input for Logic backup (Optional)		
2	AUX SUPPLY INPUT			
3-10	HIGH VOLTAGE	DC Power Input. Additional 100μF / 200V external bus capacitor required between HV and Ground.	I	
11	NC	Not Connected		
12	NC	Not Connected	-	
13-20	GROUND	Ground connection for input power	GND	
21	NC	Not Connected		
22	NC			
23-30	MOTOR A	Motor Phase A. Current output distributed equally across 8 pins per motor phase, 3A Continuous Current Rating Per Pin.	0	
31	NC	Not Connected		
32	NC			
33-40	MOTOR B	Motor Phase B. Current output distributed equally across 8 pins per motor phase, 3A Continuous Current Rating Per Pin.	0	
41	NC	Not Connected	-	
42	NC	Not Connected	-	
43-50	MOTOR C	Motor Phase C. Current output distributed equally across 8 pins per motor phase, 3A Continuous Current Rating Per Pin.	0	

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#### Pin Details

ADDRO (P1-6); ADDR1 (P1-4)

ADDRO, as well as ADDR1, are used for CAN bus addressing. To set the CAN node address of a drive, apply a fixed voltage to the ADDRO and ADDR1 pins to determine a node ID. ADDRO sets the lower 4 bits of the address, and ADDR1 sets the upper 4 bits of the address. The values for ADDRO and ADDR1 are always integer multiples of 1/5 V within the range 0-3 V. Examples of the voltages required to set certain node ID's are given in the table below. Note that setting the address to 000 or any addresses above 127 will utilize the address stored in non-volatile memory.

ADDR1 Voltage (Volts)	ADDR1 Value (Hex)	ADDRO Voltage (Volts)	ADDRO Value (Hex)	CAN Address (Node #) (Decimal)
0	0	0	0	Address stored in non-volatile memory
0	0	0.2	1	001
0	0	0.4	2	002
0	0	0.6	3	003
1.4	7	2.8	E	126
1.4	7	3	F	127
1.6	8	0	0	Address stored in non-volatile memory
3	F	3	F	Address stored in non-volatile memory

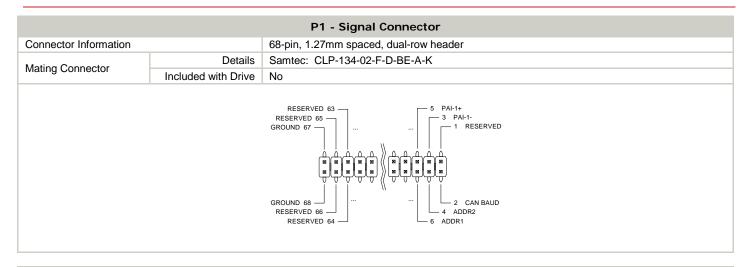
# CAN BAUD (P1-2)

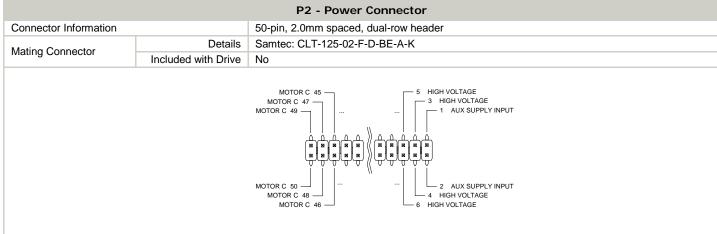
The CAN bitrate is set by applying the appropriate voltage to the CAN BAUD pin as given in the table below.

CAN BAUD Value (V)	CAN BAUD Tolerance (V)	CAN Bus Bitrate (bits/s)
0	±0.388	Bit rate stored in non-volatile memory
1	±0.388	500k
2	±0.388	250k
3	±0.388	125k



## **MECHANICAL INFORMATION**

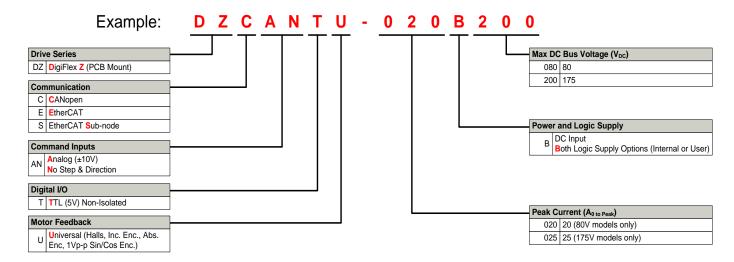




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### PART NUMBERING INFORMATION



DigiFlex® Performance™ series of products are available in many configurations. Note that not all possible part number combinations are offered as standard drives. All models listed in the selection tables of the website are readily available, standard product offerings.

ADVANCED Motion Controls also has the capability to promptly develop and deliver specified products for OEMs with volume requests. Our Applications and Engineering Departments will work closely with your design team through all stages of development in order to provide the best servo drive solution for your system. Equipped with on-site manufacturing for quick-turn customs capabilities, ADVANCED Motion Controls utilizes our years of engineering and manufacturing expertise to decrease your costs and time-to-market while increasing system quality and reliability.

## **Examples of Customized Products**

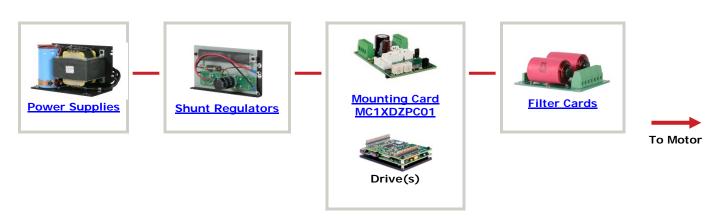
- Optimized Footprint
- ▲ Private Label Software
- OEM Specified Connectors
- ✓ No Outer Case
- ✓ Increased Current Resolution
- ▲ Increased Temperature Range
- Custom Control Interface
- Integrated System I/O

- ▲ Tailored Project File
- ▲ Silkscreen Branding
- Optimized Base Plate
   Increased Current Limits
- Increased Current LimitsIncreased Voltage Range
- ▲ Conformal Coating
- Multi-Axis Configurations
- ▲ Reduced Profile Size and Weight

Feel free to contact Applications Engineering for further information and details.

#### **Available Accessories**

ADVANCED Motion Controls offers a variety of accessories designed to facilitate drive integration into a servo system. Visit <a href="https://www.a-m-c.com">www.a-m-c.com</a> to see which accessories will assist with your application design and implementation.



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All specifications in this document are subject to change to the change at the composition of the compositio