

Description	Power Range
The DigiFlex® Performance™ (DP) Series digital servo drives are designed to drive brushed and brushless servomotors, stepper motors, and AC induction motors. These fully digital drives operate in torque, velocity, or position mode and employ Space Vector Modulation (SVM), which results in higher bus voltage utilization and reduced heat dissipation compared to traditional PWM. The drive can be configured for a variety of external command signals. Commands can also be configured using the drive's built-in Motion Engine, an internal motion controller used with distributed motion applications. In addition to motor control, these drives feature dedicated and programmable digital and analog inputs and outputs to enhance interfacing with external controllers and devices.	Peak Current
	40 A (28.3 A <sub>RMS</sub> )
	Continuous Current
	20 A (20 A <sub>RMS</sub> )
	Supply Voltage
	100 - 240 VAC

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This DP Series drive features a CANopen interface for networking and a RS-232 interface for drive configuration and setup. Drive commissioning is accomplished using DriveWare® 7, available for download at [www.a-m-c.com](http://www.a-m-c.com).

All drive and motor parameters are stored in non-volatile memory. The DPC Series Hardware Installation Manual is available for download at [www.a-m-c.com](http://www.a-m-c.com).




### Features

- ▲ Follows the CAN in Automation (CiA) 301 Communications Profile and 402 Device Profile
- ▲ 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
- ▲ Compact Size, High Power Density
- ▲ 16-bit Analog to Digital Hardware
- ▲ Built-in brake/shunt regulator
- ▲ On-the-Fly Mode Switching
- ▲ On-the-Fly Gain Set Switching
- ▲ Dedicated Safe Torque Off (STO) Inputs

### MODES OF OPERATION

- Profile Modes
- Cyclic Synchronous Modes
- Current
- Velocity
- Position
- Interpolated Position Mode (PVT)

### COMMAND SOURCE

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

### FEEDBACK SUPPORTED

- ±10 VDC Position
- Auxiliary Incremental Encoder
- EnDat® 2.1/2.2
- Hiperface®
- 1Vp-p Sine/Cosine Encoder
- Tachometer (±10 VDC)

### INPUTS/OUTPUTS

- 3 High Speed Captures
- 4 Programmable Analog Inputs (16-bit/12-bit Resolution)
- 1 Programmable Analog Output (10-bit Resolution)
- 3 Programmable Digital Inputs (Differential)
- 7 Programmable Digital Inputs (Single-Ended)
- 4 Programmable Digital Outputs (Single-Ended)

### COMPLIANCES & AGENCY APPROVALS

- UL
- cUL
- CE Class A (LVD)
- CE Class A (EMC)
- RoHS
- TÜV Rheinland® (STO)

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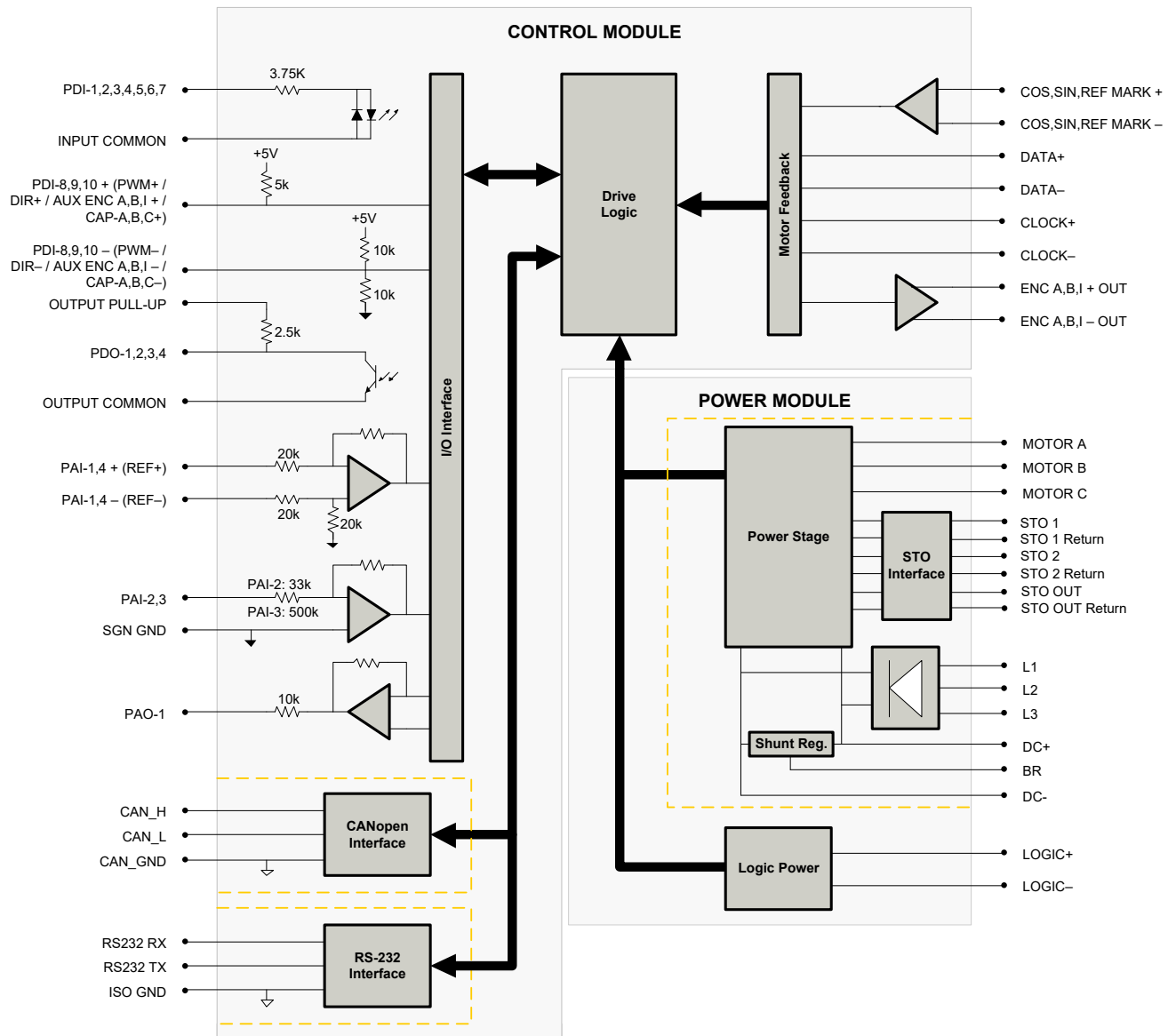
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Release Date:  
7/9/2020

Status:  
Active

**BLOCK DIAGRAM**



**Information on Approvals and Compliances**

	<p>US and Canadian safety compliance with UL 508c, the industrial standard for power conversion electronics. UL registered under file number E140173. Note that machine components compliant with UL are considered UL registered as opposed to UL listed as would be the case for commercial products.</p>
	<p>Compliant with European EMC Directive 2014/30/EU on Electromagnetic Compatibility (specifically EN 61000-6-4:2007/A1:2011 for Emissions, Class A and EN 61000-6-2:2005 for Immunity, Performance Criteria A). LVD requirements of Directive 2014/35/EU (specifically, EN 60204-1:2006/A1:2009, a Low Voltage Directive to protect users from electrical shock).</p>
	<p>The RoHS Directive restricts the use of certain substances including lead, mercury, cadmium, hexavalent chromium and halogenated flame retardants PBB and PBDE in electronic equipment.</p>
	<p>Functional Safety STO is TÜV Rheinland® certified and meets requirements of the following standards:</p> <ul style="list-style-type: none"> <li>• EN ISO 13849-1 Category 4 / PL e</li> <li>• EN IEC 61800-5-2 STO (SIL 3)</li> <li>• EN62061 SIL CL3</li> <li>• IEC 61508 SIL 3</li> </ul>

**SPECIFICATIONS**

		Power Specifications	
Description	Units	Value	
Rated Voltage	VAC (VDC)	240 (339)	
AC Supply Voltage Range	VAC	100 - 240	
AC Supply Minimum	VAC	90	
AC Supply Maximum	VAC	264	
AC Input Phases <sup>1</sup>	-	3	
AC Supply Frequency	Hz	50 - 60	
DC Supply Voltage Range <sup>2</sup>	VDC	127 - 373	
DC Bus Over Voltage Limit	VDC	394	
DC Bus Under Voltage Limit	VDC	55	
Logic Supply Voltage	VDC	20 - 30 (@ 850 mA)	
Safe Torque Off Voltage <sup>3</sup>	VDC	24 (±6)	
Maximum Peak Output Current <sup>4</sup>	A (Arms)	40 (28.3)	
Maximum Continuous Output Current <sup>5</sup>	A (Arms)	20 (20)	
Max. Continuous Output Power @ Rated Voltage <sup>6</sup>	W	6441	
Max. Continuous Power Dissipation @ Rated Voltage	W	339	
Internal Bus Capacitance	µF	660	
External Shunt Resistor Minimum Resistance	Ω	25	
Minimum Load Inductance (Line-To-Line) <sup>7</sup>	µH	600	
Switching Frequency	kHz	20	
Maximum Output PWM Duty Cycle	%	100	
Low Voltage Supply Outputs	-	+5 VDC (250 mA)	
		Control Specifications	
Description	Units	Value	
Communication Interfaces	-	CANopen (RS-232 for configuration)	
Command Sources	-	±10 V Analog, Encoder Following, Over the Network, PWM and Direction, Sequencing, Indexing, Jogging	
Feedback Supported	-	±10 VDC Position, Auxiliary Incremental Encoder, EnDat® 2.1/2.2, Hiperface®, 1Vp-p Sine/Cosine Encoder, Tachometer (±10 VDC)	
Commutation Methods	-	Sinusoidal	
Modes of Operation	-	Profile Modes, Cyclic Synchronous Modes, Current, Velocity, Position, Interpolated Position Mode (PVT)	
Motors Supported <sup>8</sup>	-	Three Phase (Brushless Servo), Single Phase (Brushed Servo, Voice Coil, Inductive Load), Stepper (2- or 3-Phase Closed Loop), AC Induction (Closed Loop Vector)	
Hardware Protection	-	40+ Configurable Functions, Over Current, Over Temperature (Drive & Motor), Over Voltage, Short Circuit (Phase-Phase & Phase-Ground), Under Voltage	
Programmable Digital Inputs/Outputs (PDIs/PDOs)	-	10/4	
Programmable Analog Inputs/Outputs (PAIs/PAOs)	-	4/1	
Primary I/O Logic Level	-	24 VDC	
Current Loop Sample Time	µs	50	
Velocity Loop Sample Time	µs	100	
Position Loop Sample Time	µs	100	
Maximum Sin/Cos Encoder Frequency	kHz	200	
Maximum Sin/Cos Interpolation	-	2048 counts per sin/cos cycle	
Internal Shunt Regulator	-	Yes	
		Mechanical Specifications	
Description	Units	Value	
Agency Approvals	-	CE Class A (EMC), CE Class A (LVD), cUL, RoHS, TÜV Rheinland® (STO), UL	
Size (H x W x D)	mm (in)	177.5 x 133.5 x 49.2 (6.99 x 5.26 x 1.94)	
Weight	g (oz)	1720 (60.7)	
Heatsink (Base) Temperature Range <sup>9</sup>	°C (°F)	0 - 75 (32 - 167)	
Storage Temperature Range	°C (°F)	-40 - 85 (-40 - 185)	
Form Factor	-	Panel Mount	
Cooling System	-	Natural Convection	
+24V LOGIC Connector	-	2-port, 3.5 mm spaced insert connector	
AUX COMM Connector	-	3-pin, 2.5 mm spaced, enclosed, friction lock header	
AUX ENCODER Connector	-	15-pin, high-density, male D-sub	
COMM Connector	-	Shielded, dual RJ-45 socket with LEDs	
FEEDBACK Connector	-	15-pin, high-density, female D-sub	
I/O Connector	-	26-pin, high-density, female D-sub	
AC POWER Connector	-	4-port, 5.0 mm spaced, push-in front spring connection header	
DC POWER Connector	-	5-port, 5.0 mm spaced, push-in front spring connection header	
MOTOR POWER Connector	-	4-port, 5.0 mm spaced, push-in front spring connection header	
STO Connector	-	8-port, 2.0 mm spaced, enclosed, friction lock header	

- Can operate on single-phase VAC if peak/cont. current ratings are reduced by at least 30%.
- Large inrush current may occur upon initial DC supply connection to DC Bus. See installation manual for details.
- STO features must be disabled for applications not using STO. See page 6 for more information.
- 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.
- $P = (DC \text{ Rated Voltage}) * (Cont. RMS Current) * 0.95$ .
- Lower inductance is acceptable for bus voltages well below maximum. Use external inductance to meet requirements.
- Maximum motor speed for stepper motors is 600 RPM. Consult the hardware installation manual for 2-phase stepper wiring configuration.
- Additional cooling and/or heatsink may be required to achieve rated performance.

**PIN FUNCTIONS**

<b>+24V LOGIC - Logic Power Connector</b>			
Pin	Name	Description / Notes	I/O
1	LOGIC GND	Logic Supply Ground	GND
2	LOGIC PWR	Logic Supply Input	I

<b>AUX COMM - RS232 Communication Connector</b>			
Pin	Name	Description / Notes	I/O
1	RS232 RX	Receive Line (RS-232)	I
2	RS232 TX	Transmit Line (RS-232)	O
3	ISO GND	Isolated Signal Ground	IGND

<b>AUX ENCODER - Auxiliary Feedback Connector</b>			
Pin	Name	Description / Notes	I/O
1	RESERVED	Reserved	-
2	RESERVED	Reserved	-
3	RESERVED	Reserved	-
4	PDI-8 + (PWM+ / AUX ENC A+ / CAP-B+)	Programmable Digital Input or PWM or Auxiliary Encoder or High Speed Capture (For Single-Ended Signals Leave Negative Terminal Open)	I
5	PDI-8 - (PWM- / AUX ENC A- / CAP-B-)	Programmable Digital Input or PWM or Auxiliary Encoder or High Speed Capture (For Single-Ended Signals Leave Negative Terminal Open)	I
6	PDI-9 + (DIR+ / AUX ENC B+ / CAP-C+)	Programmable Digital Input or Direction Input or Auxiliary Encoder or High Speed Capture (For Single-Ended Signals Leave Negative Terminal Open)	I
7	PDI-9 - (DIR- / AUX ENC B- / CAP-C-)	Programmable Digital Input or Direction Input or Auxiliary Encoder or High Speed Capture (For Single-Ended Signals Leave Negative Terminal Open)	I
8	PDI-10 + (AUX ENC I+ / CAP-A+)	Programmable Digital Input or Auxiliary Encoder or High Speed Capture (For Single-Ended Signals Leave Negative Terminal Open)	I
9	PDI-10 - (AUX ENC I- / CAP-A-)	Programmable Digital Input or Auxiliary Encoder or High Speed Capture (For Single-Ended Signals Leave Negative Terminal Open)	I
10	SGN GND	Signal Ground	SGND
11	SGN GND	Signal Ground	SGND
12	SGN GND	Signal Ground	SGND
13	+5V OUT	+5V Encoder Supply Output (Short Circuit Protected)	O
14	PAI-4 +	Differential Programmable Analog Input (12-bit Resolution)	I
15	PAI-4 -	Differential Programmable Analog Input (12-bit Resolution)	I

<b>COMM - CAN Communication Connector</b>			
Pin	Name	Description / Notes	I/O
1	CAN_H	CAN_H Line (Dominant High)	I
2	CAN_L	CAN_L Line (Dominant Low)	I
3	CAN_GND	CAN Ground	CGND
4	RESERVED	Reserved	-
5	RESERVED	Reserved	-
6	RESERVED	Reserved	-
7	CAN_GND	CAN Ground	CGND
8	RESERVED	Reserved	-

<b>FEEDBACK - Feedback Connector</b>			
Pin	Name	Description / Notes	I/O
1	COS +	Cosine Input	I
2	COS -	Cosine Input	I
3	SIN +	Sine Input	I
4	SIN -	Sine Input	I
5	SGN GND	Signal Ground	SGND
6	DATA-	Differential Data Line (Differential Hall A if using 1Vp-p Sine/Cosine encoder. Pin 6 = Hall A+, Pin 7 = Hall A-. For single-ended Halls leave negative terminal open.)	I/O
7	DATA+	Differential Data Line (Differential Hall A if using 1Vp-p Sine/Cosine encoder. Pin 6 = Hall A+, Pin 7 = Hall A-. For single-ended Halls leave negative terminal open.)	I/O
8	CLOCK+	Differential Clock Line (Differential Hall B if using 1Vp-p Sine/Cosine encoder. Pin 8 = Hall B+, Pin 9 = Hall B-. For single-ended Halls leave negative terminal open.)	O
9	CLOCK-	Differential Clock Line (Differential Hall B if using 1Vp-p Sine/Cosine encoder. Pin 8 = Hall B+, Pin 9 = Hall B-. For single-ended Halls leave negative terminal open.)	O
10	REF MARK +	Reference mark from sine/cosine encoder	I
11	RESERVED	Reserved (Differential Hall C if using 1Vp-p Sine/Cosine encoder. Pin 11 = Hall C+, Pin 12 = Hall C-. For single-ended Halls leave negative terminal open.)	-
12	RESERVED	Reserved (Differential Hall C if using 1Vp-p Sine/Cosine encoder. Pin 11 = Hall C+, Pin 12 = Hall C-. For single-ended Halls leave negative terminal open.)	-
13	+5V OUT	+5V Encoder Supply Output (Short Circuit Protected)	O
14	PAI-3	Programmable Analog Input (12-bit Resolution)	I
15	REF MARK -	Reference mark from sine/cosine encoder	I

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I/O - Signal Connector			
Pin	Name	Description / Notes	I/O
1	PDO-1	Isolated Programmable Digital Output	O
2	OUTPUT COMMON	Digital Output Common	OGND
3	PDO-2	Isolated Programmable Digital Output	O
4	PAI-1 + (REF+)	Differential Programmable Analog Input or Reference Signal Input (16-bit Resolution)	I
5	PAI-1 - (REF-)		I
6	PAI-2	Programmable Analog Input (12-bit Resolution)	I
7	PAO-1	Programmable Analog Output (10-bit Resolution)	O
8	OUTPUT PULL-UP	Digital Output Pull-Up For User Outputs	I
9	PDI-5	Isolated Programmable Digital Input	I
10	PDO-3	Isolated Programmable Digital Output	O
11	PDI-1	Isolated Programmable Digital Input	I
12	PDI-2	Isolated Programmable Digital Input	I
13	PDI-3	Isolated Programmable Digital Input	I
14	PDO-4	Isolated Programmable Digital Output	O
15	INPUT COMMON	Digital Input Common (Can Be Used To Pull-Up Digital Inputs)	IGND
16	SGN GND	Signal Ground	SGND
17	PDI-4	Isolated Programmable Digital Input	I
18	PDI-6	Isolated Programmable Digital Input	I
19	PDI-7	Isolated Programmable Digital Input	I
20	ENC A+ OUT	Emulated Encoder Channel A Output	O
21	ENC A- OUT		O
22	ENC B+ OUT	Emulated Encoder Channel B Output	O
23	ENC B- OUT		O
24	ENC I+ OUT	Emulated Encoder Index Output	O
25	ENC I- OUT		O
26	SGN GND	Signal Ground	SGND

Motor Power Connector			
Pin	Name	Description / Notes	I/O
1	CHASSIS	Chassis Ground	CGND
2	MOTOR A	Motor Phase A	O
3	MOTOR B	Motor Phase B	O
4	MOTOR C	Motor Phase C	O

AC Power Connector			
Pin	Name	Description / Notes	I/O
1	L1	AC Supply Input (Three Phase). External 20 A time delay fuses are recommended in series with the AC input lines.	I
2	L2		I
3	L3		I
4	CHASSIS	Chassis Ground	CGND

DC Power Connector			
Pin	Name	Description / Notes	I/O
1	DC-	Power Ground	PGND
2	NC	No Connect	-
3	DC+	DC Power Input	I
4	DC+	External Shunt Resistor Connection. Connect resistor between DC+ and BR.	-
5	BR		-

STO – Safe Torque Off Connector*			
Pin	Name	Description / Notes	I/O
1	STO OUTPUT	Safe Torque Off Output	O
2	RESERVED	Reserved	-
3	STO-1 RETURN	Safe Torque Off 1 Return	STORET1
4	STO-1	Safe Torque Off – Input 1	I
5	STO-2 RETURN	Safe Torque Off 2 Return	STORET2
6	STO-2	Safe Torque Off – Input 2	I
7	RESERVED	Reserved	-
8	STO OUT RETURN	Safe Torque Off Output Return	STORETO

\*STO features must be disabled for applications not using STO. See page 6 for more information.

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Release Date:  
7/9/2020

Status:  
Active

## HARDWARE SETTINGS

### Switch Functions

Switch	Description	Setting	
		On	Off
1	Bit 0 of binary CANopen node ID. Does not affect RS-232 settings.	1	0
2	Bit 1 of binary CANopen node ID. Does not affect RS-232 settings.	1	0
3	Bit 2 of binary CANopen node ID. Does not affect RS-232 settings.	1	0
4	Bit 3 of binary CANopen node ID. Does not affect RS-232 settings.	1	0
5	Bit 4 of binary CANopen node ID. Does not affect RS-232 settings.	1	0
6	Bit 5 of binary CANopen node ID. Does not affect RS-232 settings.	1	0
7	Bit 0 of drive CANopen bit rate setting. Does not affect RS-232 settings.	1	0
8	Bit 1 of drive CANopen bit rate setting. Does not affect RS-232 settings.	1	0

### Additional Details

The drive can be configured to use the address and/or bit rate stored in non-volatile memory by setting the address and/or bit rate value to 0. Use the table below to map actual bit rates to a bit rate setting. Note that higher bit rates are possible when using the value stored in NVM.

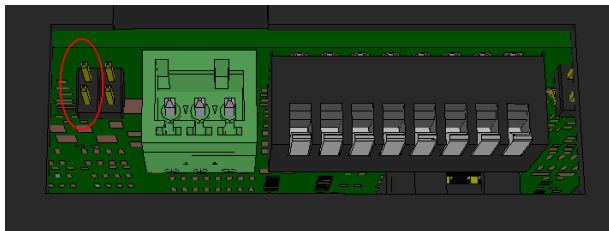
Bit Rate (kbits/sec)	Value For Bit Rate Setting
Load from non-volatile memory	0
500	1
250	2
125	3

### Safe Torque Off (STO) Inputs

The Safe Torque Off (STO) Inputs are dedicated +24VDC max sinking single-ended inputs. For applications not using STO functionality, disabling of the STO feature is required for proper drive operation. STO may be disabled by installing the included mating connector for the STO connector and following the STO Disable wiring instructions as given in the hardware installation manual. Consult the hardware installation manual for more information. Alternatively, a dedicated STO Disable Key connector is available for purchase for applications where STO is not in use. Contact the factory for ordering information.

### CAN Termination Jumper Configuration

Jumper	Description	Configuration		
		Not Installed	Pins 1-2	Pins 3-4
J1	CAN bus termination. For the last drive in a CAN network, a jumper (2.54mm) must be installed on the 4-pin header adjacent to the RS-232 connector. The jumper should be installed between pins 1 and 2, which are the two pins furthest from the connector (see graphic below).	Non-terminating Node	Terminating Node	N/A



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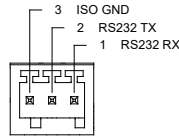
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**MECHANICAL INFORMATION**

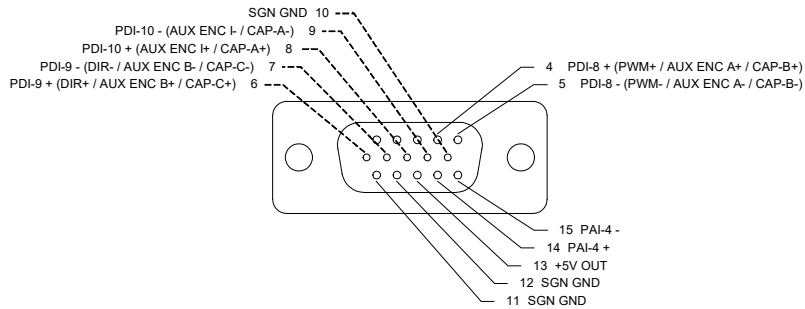
**AUX COMM - RS232 Communication Connector**

Connector Information	3-pin, 2.5 mm spaced, enclosed, friction lock header	
Mating Connector	Details	Phoenix: Plug P/N 1881338
	Included with Drive	Yes



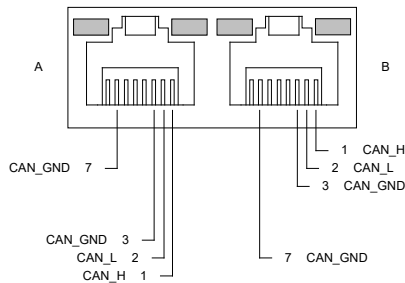
**AUX ENCODER - Auxiliary Feedback Connector**

Connector Information	15-pin, high-density, male D-sub	
Mating Connector	Details	TYCO: Plug P/N 1658681-1; Housing P/N 5748677-1; Terminals P/N 1658686-2 (loose) or 1658686-1 (strip)
	Included with Drive	No



**COMM - CAN Communication Connector**

Connector Information	Shielded, dual RJ-45 socket with LEDs	
Mating Connector	Details	AMP: Plug P/N 5-569552-3
	Included with Drive	No



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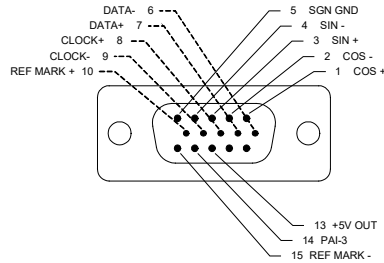
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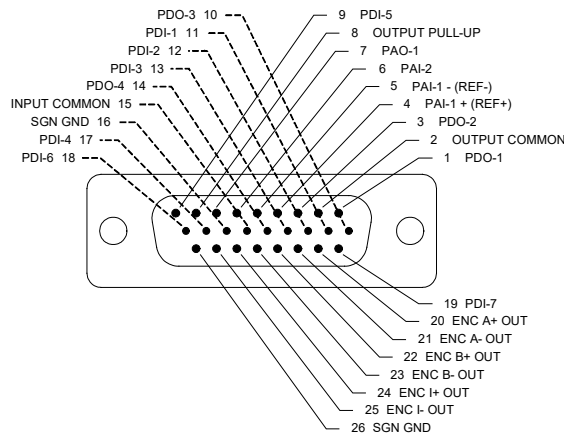
**FEEDBACK - Feedback Connector**

Connector Information		15-pin, high-density, female D-sub
Mating Connector	Details	TYCO: Plug P/N 748364-1; Housing P/N 5748677-1; Terminals P/N 1658670-2 (loose) or 1658670-1 (strip)
	Included with Drive	No



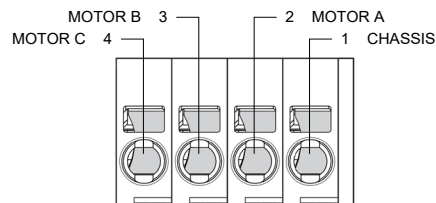
**I/O - Signal Connector**

Connector Information		26-pin, high-density, female D-sub
Mating Connector	Details	TYCO: Plug P/N 1658671-1; Housing P/N 5748677-2; Terminals P/N 1658670-2 (loose) or 1658670-1 (strip)
	Included with Drive	No



**Motor Power Connector**

Connector Information		4-port, 5.0 mm spaced, push-in front spring connection header
Mating Connector	Details	Push-in direct plug-in method for solid or stranded conductors with or without ferrules
	Included with Drive	Not Applicable



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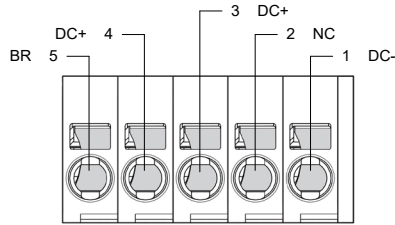
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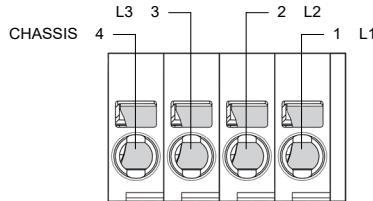
**DC Power Connector**

Connector Information		5-port, 5.0 mm spaced, push-in front spring connection header
Mating Connector	Details	Push-in direct plug-in method for solid or stranded conductors with or without ferrules
	Included with Drive	Not Applicable



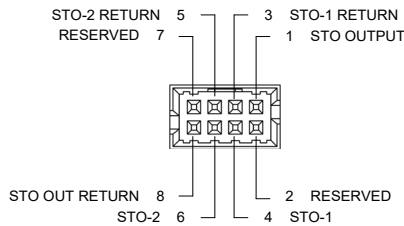
**AC Power Connector**

Connector Information		4-port, 5.0 mm spaced, push-in front spring connection header
Mating Connector	Details	Push-in direct plug-in method for solid or stranded conductors with or without ferrules
	Included with Drive	Not Applicable



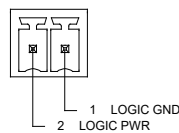
**STO – Safe Torque Off Connector**

Connector Information		8-port, 2.00 mm spaced, enclosed, friction lock header
Mating Connector	Details	Molex: P/N 51110-0860 (housing); 50394-8051 (pins)
	Included with Drive	Yes



**+24V LOGIC - Logic Power Connector**

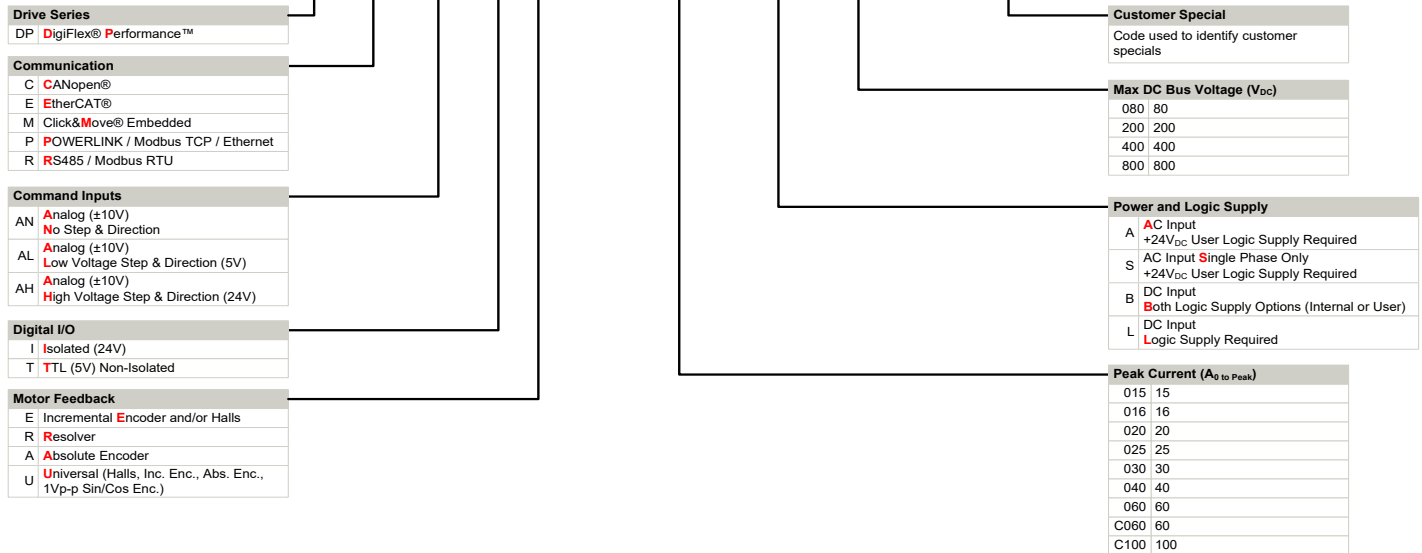
Connector Information		2-port, 3.5 mm spaced, enclosed, friction lock header
Mating Connector	Details	Phoenix Contact: P/N 1840366
	Included with Drive	Yes





**PART NUMBERING INFORMATION**

Example: **D P C A N I A - 0 4 0 A 4 0 0 -**



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

**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 Voltage Range
- ▲ Conformal Coating
- ▲ Multi-Axis Configurations
- ▲ Reduced Profile Size and Weight

**Available Accessories**

ADVANCED Motion Controls offers a variety of accessories designed to facilitate drive integration into a servo system. Visit [www.a-m-c.com](http://www.a-m-c.com) to see which accessories will assist with your application design and implementation.



→  
**To Motor**

All specifications in this document are subject to change without written notice. Actual product may differ from pictures provided in this document.