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Ndrive Series

Digital Servo Amplifiers – PWM

Wide output power range from 10 A peak to 150 A peak at 320 VDC

2- or 3-phase AC line input or DC input

CE approved and UL listed

PWM power stages

Digital current, velocity, and position loops for improved motion stability

Optional integrated encoder multiplier for higher throughput and reduced wiring

Flexible design provides ability to drive brushless and DC brush-type servomotors as well as stepping motors

Encoder or resolver feedback



Ndrive HPe



Ndrive CP



Ndrive MP

The Ndrive® family of digital servo amplifiers are high performance discrete drives used with the Automation 3200 motion controller. These drives are capable of controlling brushless, DC brush, and stepper motors over a wide range of operating voltages and currents. Based on a common architecture, Ndrive amplifiers perform both current- and position-loop closures digitally.

The use of high-performance double-precision processors allows these drives to generate ultra-smooth motion profiles. Servo system response is optimized with the use of up to eight second-order loop-shaping filters, precise time-aligned feed-forward and other proprietary techniques with loop closure rates up to 20 kHz.

The Ndrive family is offered in a number of highly efficient PWM versions. The Ndrive MP is a low power, small footprint PWM drive ideal for space-sensitive applications. The Ndrive CP is a medium-power PWM drive capable of

running directly from AC mains voltage and is optimized for cost-sensitive applications. The Ndrive HPe is the highest performance PWM drive providing a host of features not available on the other PWM drives, and is available in output current ranges from 10 A to 150 A peak.

Options for the Ndrive family include integral encoder interpolation, one- to three-axis position synchronized output (PSO), automatic brake control, digital and analog I/O expansion, absolute encoder interface, and one- or two-channel resolver interfaces. An optional dedicated ethernet port is available on the HPe drives for connection to third-party I/O expansion devices. This provides the potential to connect to a large number of I/O points typically required for PLC-type applications.

Any combination of Ndrive amplifiers may be connected to the Automation 3200 FireWire® network, allowing the system to be customized as needed.

Ndrive Series COMPARISON



Ndrive HPe
Width: 99 mm
Height: 232.4 mm



Ndrive CP
Width: 63.5 mm
Height: 198.2 mm



Ndrive MP
Width: 41.1 mm
Height: 141.2 mm

| Ndrive Comparison Chart | Ndrive HPe | Ndrive CP | Ndrive MP |
|---|--------------------------|--------------------------|------------------------|
| PC Interface | FireWire® | FireWire® | FireWire® |
| Current Output, Peak ⁽¹⁾ | 10-150 A | 10-30 A | 10 A |
| Current Output, Continuous ⁽¹⁾ | 5-75 A | 5-10 A | 5 A |
| Bus Voltage | ±10-320 VDC | ±10-320 VDC | ±40 VDC |
| Amplifier Type | PWM | PWM | PWM |
| Motor Supply Voltage | 2 or 3 Phase AC | 2 Phase AC | DC |
| Standard I/O ⁽²⁾ | 4-DO/6-DI 1-AO/1-AI | 4-DO/6-DI 1-AO/1-AI | 1-AI |
| Expansion I/O ⁽²⁾ (Additional to Base I/O) | 16-DO/16-DI 3-AO/3-AI | 16-DO/16-DI 1-AO/1-AI | 8-DO/8-DI 1-AO/1-AI |
| Single Axis PSO ⁽³⁾ | Yes | Yes | Yes |
| Dual Axis PSO ⁽³⁾ | Yes | No | No |
| Triple Axis PSO ⁽³⁾ | Yes | No | No |
| Ethernet Capable for Third-Party I/O | Yes | No | No |

Notes:

1. Peak value of the sine wave; rms current for AC motors is $0.707 \cdot A_{pk}$.
2. DO = Digital Output; DI = Digital Input; AO = Analog Output; AI = Analog Input.
3. PSO not available on Ndrive CP/MP when using integral MXU.

Ndrive HPe Series SPECIFICATIONS

| Ndrive HPe | Units | 10 | 20 | 30 | 50 | 75 | 100 | 150 |
|---|-----------------|--|----|----|---|----|--------------|-----|
| Motor Style | | Brush, Brushless, Stepper ⁽¹⁾ | | | | | | |
| Motor Supply | VAC | Single-Phase 7-240 V; 50/60 Hz | | | Single- or Three-Phase 115 or 230 V; 50/60 Hz | | | |
| Control Supply ⁽²⁾ | VAC | 85-240 VAC; 50/60 Hz | | | | | | |
| Bus Voltage ⁽³⁾ | VDC | 10-320 ⁽³⁾ | | | | | | |
| Peak Output Current (1 sec) ⁽⁴⁾ | A _{pk} | 10 | 20 | 30 | 50 | 75 | 100 | 150 |
| Continuous Output Current ⁽⁴⁾ | A _{pk} | 5 | 10 | 10 | 25 | 37 | 50 | 75 |
| Digital Inputs | — | 6 Optically-Isolated (2 High Speed) | | | | | | |
| Digital Outputs | — | 4 Optically-Isolated | | | | | | |
| Analog Inputs | — | One 16-bit Differential; ±10 V | | | | | | |
| Analog Outputs | — | One 16-bit Single-Ended; ±10 V | | | | | | |
| Dedicated Axis I/O on Feedback Connector | | Three Limit Inputs (CW, CCW, Home); Three Hall Effect Inputs (A, B, C); Three High-Speed differential Inputs (sin, cos, mkr for encoder); Motor Over-Temperature Input | | | | | | |
| Dedicated I/O on Auxiliary Feedback Connector | | sin, cos, mkr for Aux Enc; Aux Enc can be used for PSO Output | | | | | | |
| I/O Expansion Board ⁽⁵⁾ | — | 16/16 Digital Opto-Isolated; 3 Analog In (±10 V, 16-bit Differential); 3 Analog Out (±10 V, 16-bit) | | | | | | |
| High Speed Data Capture | | Yes (50 ns Latency) | | | | | | |
| Automatic Brake Control | — | Standard; 24 V at 1 A | | | | | | |
| Emergency Stop Sense Input (ESTOP) ⁽⁶⁾ | — | Standard; 24 V Opto-Isolated | | | | | | |
| Position Synchronized Output (PSO) | — | Single Axis Standard, Two/Three Axis Optional | | | | | | |
| Can Output Multiplied Encoder | | Yes | | | | | | |
| Can Output Square Wave Encoder | | Yes | | | | | | |
| Primary Encoder Input Frequency | | 500 kHz Amplified Sine Wave Standard (for onboard multiplier); 40 MHz TTL Square Wave | | | | | | |
| Secondary Encoder Input Frequency | | 32 MHz Square Wave | | | | | | |
| Encoder Multiplication | — | Up to x65536 with Quadrature Output (MXH) | | | | | | |
| Resolver Interface | — | Optional; 1 or 2 Channel; 16-bit | | | | | | |
| Internal Shunt Resistor | | 40 W Continuous; 400 W Peak (5 seconds) | | | 440 W Continuous | | | |
| External Shunt | | Optional | | | | | | |
| Ethernet | — | Optional | | | | | | |
| USB | | No | | | | | | |
| RS-232 | | No | | | | | | |
| FireWire | | Yes | | | | | | |
| Fieldbus | | Modbus TCP on PC | | | | | | |
| Current Loop Update Rate | kHz | 20 | | | | | | |
| Servo Loop Update Rate | kHz | 8 | | | | | | |
| Power Amplifier Bandwidth | kHz | Selectable Through Software | | | | | | |
| Minimum Load Inductance | mH | 0.1 @ 160 VDC (1.0 mH @ 320 VDC) | | | | | | |
| Operating Temperature | °C | 0 to 50 | | | | | | |
| Storage Temperature | °C | -30 to 85 | | | | | | |
| Weight | kg (lb) | 2.36 (5.2) | | | 6.64 (14.6) | | 11.06 (24.4) | |

Notes:

- For stepper motors only, one-half of bus voltage is applied across the motor (e.g., 80 VDC supply results in 40 VDC across stepper motor).
- "Keep Alive" supply.
- Output voltage dependent upon input voltage.
- Peak value of the sine wave; rms current for AC motors is $0.707 \cdot A_{pk}$.
- Requires IO option.
- Requires external relay to remove motor supply power.

Ndrive CP Series SPECIFICATIONS

| Ndrive CP | Units | 10 | 20 | 30 |
|---|-----------------|--|----|----|
| Motor Style | | Brush, Brushless, Stepper ⁽¹⁾ | | |
| Motor Supply | VAC | Single-Phase 7-240 VAC; 50/60 Hz | | |
| Control Supply ⁽²⁾ | VAC | 85-240 VAC; 50/60 Hz | | |
| Bus Voltage ⁽³⁾ | VDC | 10-320 ⁽³⁾ | | |
| Peak Output Current (1 sec) ⁽⁴⁾ | A _{pk} | 10 | 20 | 30 |
| Continuous Output Current ⁽⁴⁾ | A _{pk} | 5 | 10 | 10 |
| Digital Inputs | — | 6 Optically-Isolated (2 High Speed) | | |
| Digital Outputs | — | 4 Optically-Isolated | | |
| Analog Inputs | — | One 16-bit Differential; ±10 V | | |
| Analog Outputs | — | One 16-bit Single-Ended; ±10 V | | |
| Dedicated Axis I/O on Feedback Connector | | Three Limit Inputs (CW, CCW, Home); Three Hall Effect Inputs (A, B, C); Three High-Speed differential Inputs (sin, cos, mkr for encoder); Motor Over-Temperature Input | | |
| Dedicated I/O on Auxiliary Feedback Connector | | sin, cos, mkr for Aux Enc; Aux Enc can be used for PSO Output | | |
| I/O Expansion Board ⁽⁵⁾ | — | 16/16 Digital Opto-Isolated; 1 Analog In (±10 V, 12-bit Differential); 1 Analog Out (±10 V, 16-bit) | | |
| High Speed Data Capture | | Yes (50 ns Latency) | | |
| Automatic Brake Control | — | Standard; 24 V at 1 A | | |
| Emergency Stop Sense Input (ESTOP) ⁽⁶⁾ | — | Standard; 24 V Opto-Isolated | | |
| Position Synchronized Output (PSO) | — | Single Axis Only | | |
| Can Output Multiplied Encoder | | No | | |
| Can Output Square Wave Encoder | | Yes | | |
| Primary Encoder Input Frequency | | 200 kHz Amplified Sine Wave Standard (for onboard multiplier); 40 MHz TTL Square Wave | | |
| Secondary Encoder Input Frequency | | 40 MHz Square Wave | | |
| Encoder Multiplication | — | Up to x4096 (MXU) | | |
| Resolver Interface | — | N/A | | |
| Internal Shunt Resistor | | 40 W Continuous; 400 W Peak (5 seconds) | | |
| External Shunt | | Optional | | |
| Ethernet | — | N/A | | |
| USB | | No | | |
| RS-232 | | No | | |
| FireWire | | Yes | | |
| Fieldbus | | Modbus on PC | | |
| Current Loop Update Rate | kHz | 20 | | |
| Servo Loop Update Rate | kHz | 8 | | |
| Power Amplifier Bandwidth | kHz | Selectable Through Software | | |
| Minimum Load Inductance | mH | 0.1 @ 160 VDC (1.0 mH @ 320 VDC) | | |
| Operating Temperature | °C | 0 to 50 | | |
| Storage Temperature | °C | -30 to 85 | | |
| Weight | kg (lb) | 1.64 (3.6) | | |

Notes:

1. For stepper motors only, one-half of bus voltage is applied across the motor (e.g., 80 VDC supply results in 40 VDC across stepper motor).
2. "Keep Alive" supply.
3. Output voltage dependent upon input voltage.
4. Peak value of the sine wave; rms current for AC motors is $0.707 * A_{pk}$.
5. Requires IO option.
6. Requires external relay to remove motor supply power.

Ndrive MP Series SPECIFICATIONS

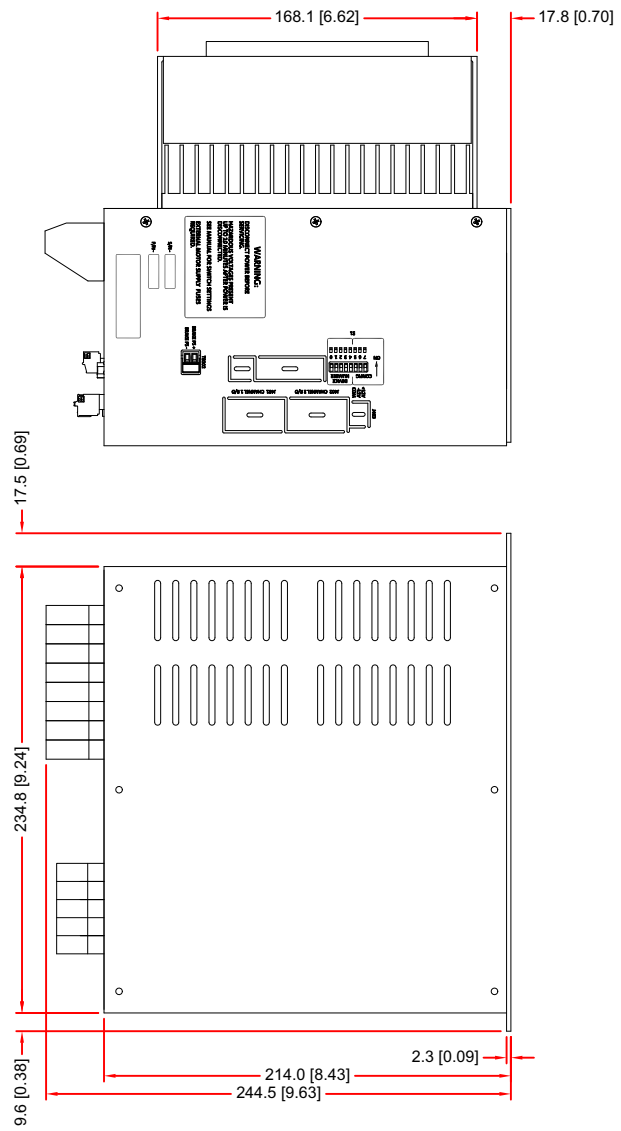
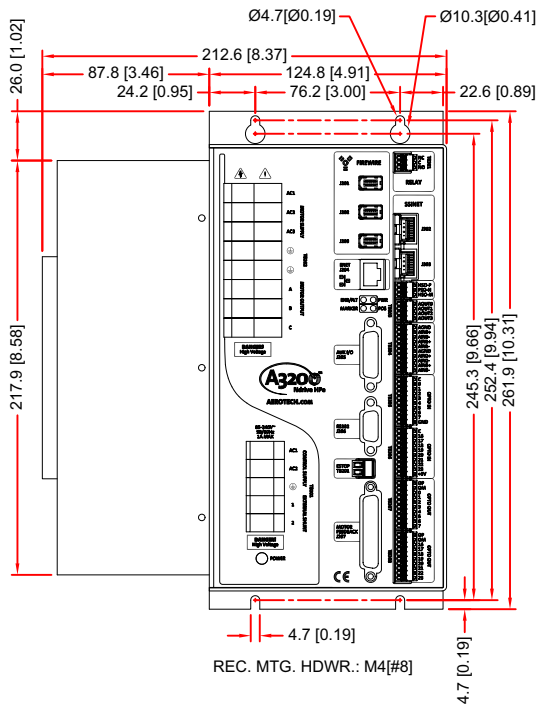
| Ndrive MP | Units | |
|---|-----------------|--|
| Motor Style | | Brush, Brushless, Stepper ⁽¹⁾ |
| Motor Supply | VDC | 10-80 |
| Control Supply ⁽²⁾ | VDC | 24-80 |
| Bus Voltage ⁽³⁾ | VDC | 10-80 |
| Peak Output Current (1 sec) ⁽⁴⁾ | A _{pk} | 10 |
| Continuous Output Current ⁽⁴⁾ | A _{pk} | 5 |
| Digital Inputs | — | N/A |
| Digital Outputs | — | N/A |
| Analog Inputs | — | One 16-bit Differential; ±10 V |
| Analog Outputs | — | N/A |
| Dedicated Axis I/O on Feedback Connector | | Three Limit Inputs (CW, CCW, Home); Three Hall Effect Inputs (A, B, C); Three High-Speed differential Inputs (sin, cos, mrk for encoder); Motor Over-Temperature Input |
| Dedicated I/O on Auxiliary Feedback Connector | | N/A |
| I/O Expansion Board ⁽⁵⁾ | — | 8/8 Digital Opto-Isolated; 1 Analog In (±10 V, 12-bit Differential); 1 Analog Out (±5 V, 16-bit); sin, cos, mrk for Aux Enc; Aux Enc can be used for PSO Output |
| High Speed Data Capture | | Yes (50 ns Latency) |
| Automatic Brake Control | — | Optional ⁽⁶⁾ |
| Emergency Stop Sense Input (ESTOP) ⁽⁶⁾ | — | Standard; 24 V Opto-Isolated |
| Position Synchronized Output (PSO) | — | Optional ⁽⁶⁾ |
| Can Output Multiplied Encoder | | No |
| Can Output Square Wave Encoder | | No |
| Primary Encoder Input Frequency | | 200 kHz Amplified Sine Wave Standard (for onboard multiplier); 40 MHz TTL Square Wave |
| Secondary Encoder Input Frequency | | 32 MHz Square Wave |
| Encoder Multiplication | — | Up to x1024 (MXU) |
| Resolver Interface | — | N/A |
| Internal Shunt Resistor | | N/A |
| External Shunt | | N/A |
| Ethernet | — | N/A |
| USB | | No |
| RS-232 | | No |
| FireWire | | Yes |
| Fieldbus | | Modbus TCP on PC |
| Current Loop Update Rate | kHz | 20 |
| Servo Loop Update Rate | kHz | 8 |
| Power Amplifier Bandwidth | kHz | Selectable Through Software |
| Minimum Load Inductance | mH | 0.1 @ 80 VDC |
| Operating Temperature | °C | 0 to 50 |
| Storage Temperature | °C | -30 to 85 |
| Weight | kg (lb) | 0.45 (1.0) |

Notes:

- For stepper motors only, one-half of bus voltage is applied across the motor (e.g., 80 VDC supply results in 40 VDC across stepper motor).
- "Keep Alive" supply.
- Output voltage dependent upon input voltage.
- Peak value of the sine wave; rms current for AC motors is $0.707 \cdot A_{pk}$.
- Requires IO option.
- Requires external relay to remove motor supply power.

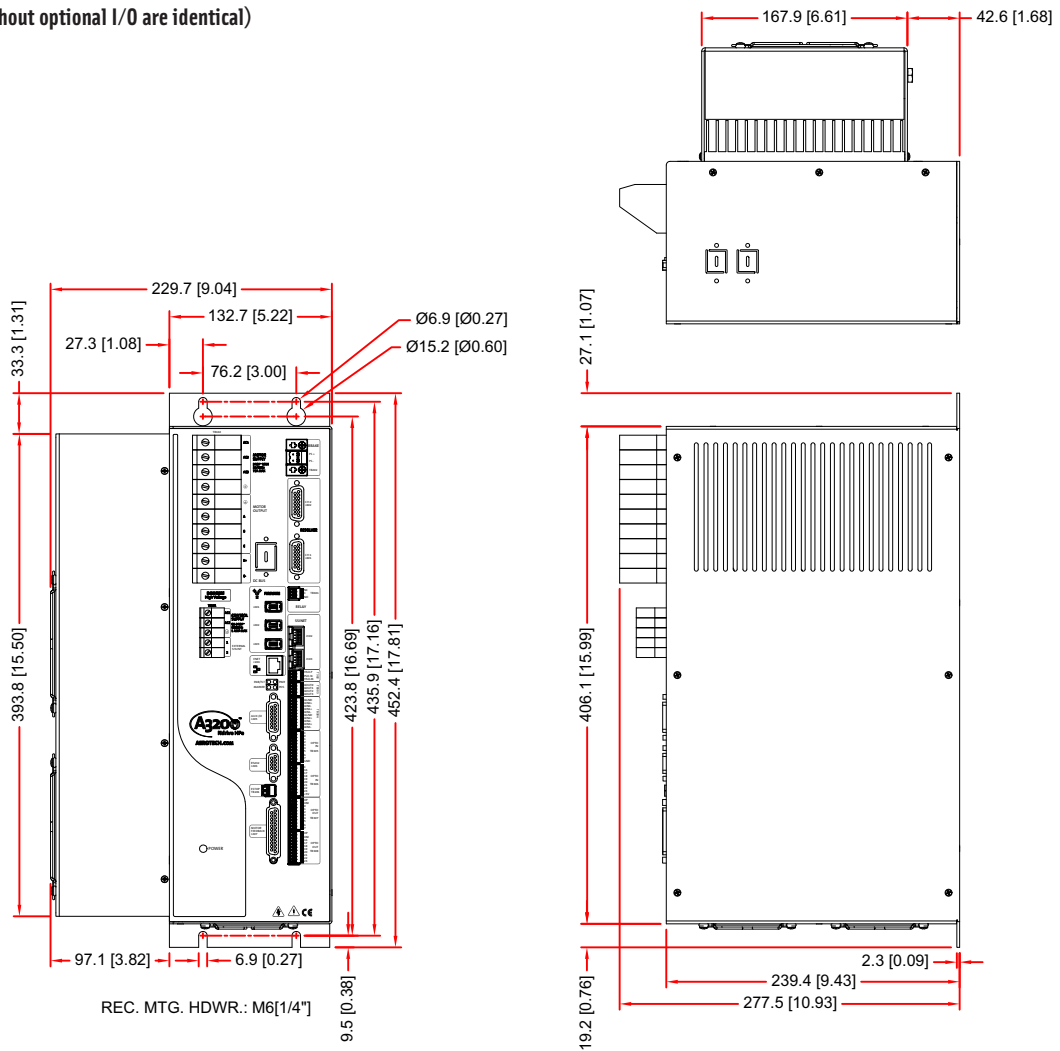
Ndrive HPe50/75/100 DIMENSIONS

Ndrive HPe50/75/100 with Optional I/O (Dimensions without optional I/O are identical)



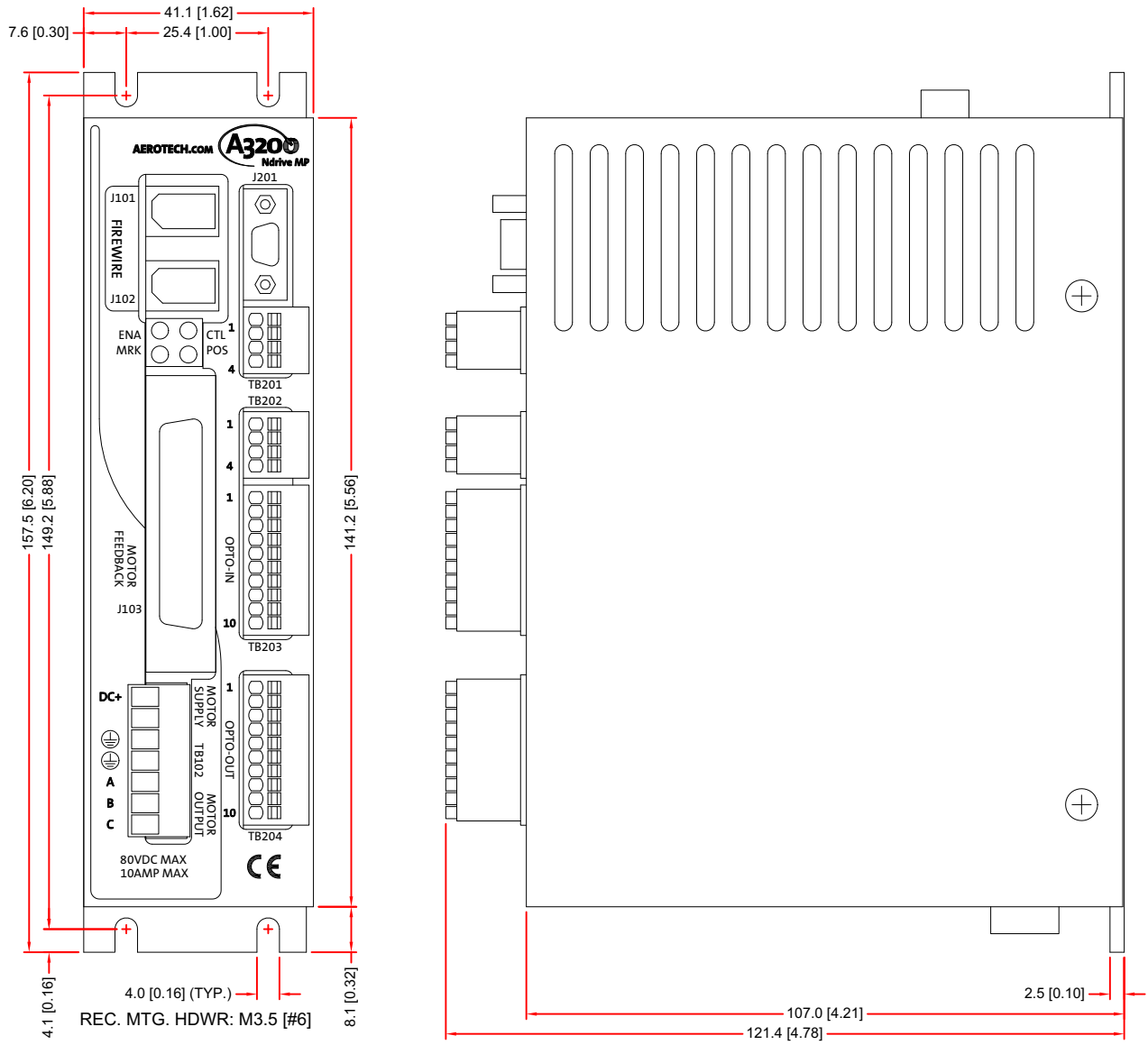
Ndrive HPe150 DIMENSIONS

Ndrive HPe150 with Optional I/O
 (Dimensions without optional I/O are identical)



Ndrive MP DIMENSIONS

Ndrive MP with Optional I/O
 (Dimensions without optional I/O are identical)



Ndrive Series ORDERING INFORMATION

Ordering Example

| Ndrive HPe | 20 | -ENET | RDP1-10K | -S |
|------------|----------------|----------------|------------------|--------------------|
| Base | Output Current | Control Option | Resolver Options | Power Stage Option |
| Ndrive HPe | 10 | -IO | RDP1-10K | |
| | 20 | -DUALPSO | RDP1-7.5K | -S |
| | 30 | -TRIPLEPSO | RDP1-5K | -EXTSHUNT |
| | 50 | -PSOPTO2 | RDP2-10K | -HS |
| | 75 | -PSOPTO3 | RDP2-7.5K | -FAN-115 |
| | 100 | -PSOPTO4 | RDP2-5K | -FAN-230 |
| Ndrive CP | 10 | -IO | | -EXTSHUNT |
| | 20 | -MXU | | -S |
| | 30 | | | |
| Ndrive MP | 10 | -IO -MXU | | |

NDRIVE HPe (PWM)

| | |
|-----------------|--|
| NDRIVE HPe10 | 5 A continuous, 10 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motors; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC), 1 16-bit analog output (± 10 VDC), 1 24-VDC 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs |
| NDRIVE HPe20 | 10 A continuous, 20 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motors; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC), 1 16-bit analog output (± 10 VDC), 1 24-VDC 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs |
| NDRIVE HPe30-S | 10 A continuous, 30 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motors; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC), 1 16-bit analog output (± 10 VDC), 1 24-VDC 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs, 400 W peak internal shunt resistor |
| NDRIVE HPe50-S | 25 A continuous, 50 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motor; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC); 1 16-bit analog output (± 10 VDC), 1 24-VDC 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs, 440 W peak internal shunt resistor |
| NDRIVE HPe75-S | 37 A continuous, 75 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motors; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC), 1 16-bit analog output (± 10 VDC), 1 24-VDC, 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs, 440 W peak internal shunt resistor |
| NDRIVE HPe100-S | 50 A continuous, 100 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motors; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC), 1 16-bit analog output (± 10 VDC), 1 24-VDC 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs, 440 W peak internal shunt resistor |

Ndrive Series ORDERING INFORMATION

NDRIVE HPe150-S 75 A continuous, 150 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; drives brushless, brush, and stepper motors; includes: 4 opto-isolated digital inputs (sinking or sourcing), 2 high-speed digital inputs, 4 opto-isolated digital outputs (sourcing or sinking), 1 16-bit analog differential input (± 10 VDC), 1 16-bit analog output (± 10 VDC), 1 24-VDC 1 A brake relay, single-axis PSO capability, 2 quadrature encoder input channels (primary & auxiliary), ESTOP sense input, dedicated Home and Limit inputs, 440 W peak internal shunt resistor

NDRIVE HPe I/O Options

-I/O Expansion board with 16 opto-isolated inputs (sinking or sourcing) and 16 outputs (sinking or sourcing), 3 16-bit differential analog inputs (± 10 V), 3 16-bit analog outputs (± 10 V), 2 SSI Net, and 1 mechanical brake relay

-MXH Programmable encoder multiplier up to x65536; supports real-time encoder quadrature output

NDRIVE HPe/HLe Control Options

-DUALPSO Two-axis PSO firing; second encoder input through AUX connection on Ndrive or through SSINET on I/O board, includes HCPL2601 opto-isolator

-TRIPLEPSO Three-axis PSO firing; requires I/O option to provide connections for three axes of encoder feedback; includes HCPL2601 opto-isolator

-PSOPTO2 Opto-isolator for PSO; requires IOx option ($<+15$ V, high speed, low current, 6N136)

-PSOPTO3 Opto-isolator for PSO; requires IOx option ($<+30$ V, low speed, high current, 4N33)

-PSOPTO4 Opto-isolator for PSO; requires IOx option (TIL117-M, 40 kHz, 5-25 VDC, 50 mA)

-PSOAH Active-high PSO output

-ENET 10/100 BASE-T Ethernet port

NDRIVE HPe Resolver Options

RDP1-10K Ndrive 1-channel resolver to digital feedback card with dynamic resolution switching capability; 10 kHz carrier frequency

RDP1-7.5K Ndrive 1-channel resolver to digital feedback card with dynamic resolution switching capability; 7.5 kHz carrier frequency

RDP1-5K Ndrive 1-channel resolver to digital feedback card with dynamic resolution switching capability; 5 kHz carrier frequency

RDP2-10K Ndrive 2-channel resolver to digital feedback card with dynamic resolution switching capability; 10 kHz carrier frequency

RDP2-7.5K Ndrive 2-channel resolver to digital feedback card with dynamic resolution switching capability; 7.5 kHz carrier frequency

RDP2-5K Ndrive 2-channel resolver to digital feedback card with dynamic resolution switching capability; 5 kHz carrier frequency

NDRIVE HPe Power Stage Options

-S 40 W continuous internal shunt resistor network – 10/20/30 models; 440 W peak on 50/75/100/150 models

-EXTSHUNT 2-pin connector for external shunt; external shunt resistor not provided

-FAN-115 115 VAC cooling fan for HPe50/75/100/150

-FAN-230 230 VAC external cooling fan for HPe50/75/100/150

Ndrive Series ORDERING INFORMATION

NDRIVE CP

| | |
|---------------|---|
| NDRIVE CP10 | 5 A continuous, 10 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; supports brush and brushless motors; includes: 4 opto-isolated digital outputs (sinking or sourcing); 6 opto-isolated digital inputs (sinking or sourcing); 1 16-bit analog output; 1 16-bit differential analog input; single-axis PSO capability; 2 quadrature encoder input channels; ESTOP sense input |
| NDRIVE CP20 | 10 A continuous, 20 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; supports brush and brushless motors; includes: 4 opto-isolated digital outputs (sinking or sourcing); 6 opto-isolated digital inputs (sinking or sourcing); 1 16-bit analog output; 1 16-bit differential analog input; single-axis PSO capability; 2 quadrature encoder input channels; ESTOP sense input |
| NDRIVE CP30-S | 10 A continuous, 30 A peak, 240 VAC max motor supply input, and 85-240 VAC control supply input; supports brush and brushless motors; includes: 4 opto-isolated digital outputs (sinking or sourcing); 6 opto-isolated digital inputs (sinking or sourcing); 1 16-bit analog output; 1 16-bit differential analog input; single-axis PSO capability; 2 quadrature encoder input channels; ESTOP sense input; 40 W internal shunt resistor |

NDRIVE CP Control Options

| | |
|------|---|
| -I/O | Expansion board with 16 opto-isolated inputs (sinking or sourcing); 16 outputs (sinking or sourcing); 1 12-bit analog input; 1 16-bit analog output; brake relay |
| -MXU | Programmable encoder multiplier up to x4096; no real-time encoder quadrature output |

NDRIVE CP Power Stage Options

| | |
|-----------|--------------------------------------|
| -S | 40 W internal shunt resistor network |
| -EXTSHUNT | External shunt |

NDRIVE MP

| | |
|-------------|--|
| NDRIVE MP10 | 10 A peak, 5 A continuous, 10-80 VDC motor supply input, 24-80 VDC control supply input; supports brush, brushless, and stepper motors; includes: single-axis PSO capability (requires I/O board); 1 quadrature encoder input channel; ESTOP sense input |
|-------------|--|

NDRIVE MP Control Options

| | |
|------|--|
| -I/O | Expansion board with 8 opto-isolated inputs (sinking or sourcing); 8 outputs (sinking or sourcing); 1 12-bit analog input; 1 16-bit analog output; brake relay; 1 quadrature encoder input, PSO output |
| -MXU | Programmable encoder multiplier up to x1024; no real-time output |



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