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## 1000/2000 Series

# DRIVEBLOK® MODULE

**120-460 VAC**
**0.5-5 Hp/1000 Series**
**7.5-20 Hp/2000 Series**

## Features

- Features SensorlesServo™ control of brushless permanent magnet motors and three phase AC induction motors.
- Speed and Torque Mode operation
- Flying start for AC induction motor
- Line drop-out ride-through
- wInControl® PC based set-up utility
- Linear and s-curve acceleration profiles
- Flexible Digital Inputs and Outputs
- 4-20 mA Current Loop:
  Speed Ref, Torque Ref, Load limit
- +/- 10V Input:
  Speed Ref, Speed & Direction Ref, Torque Ref, Load limit
- Three Analog Outputs:
  Current, Torque, Torque Setpoint, Speed Set-Point, Speed, Frequency, Output voltage, Heatsink Temp, DC Link Voltage
- Eight Digital Inputs:
  Run Enable, External Fault, Run, Jog, Direction, Digital Pot Accel, Digital Pot Decel, Accel / Decel Select, Preset Speed Bits 0-2, Preset Teach, Local Mode, Auto-Tune, Open Loop Control, Coast Stop, Torque Mode, Analog Setpoint Source, Fault Clear, Start/Stop, Current Loop Disable, Run Fwd, Run Rev, Start Fwd, Start Rev, Analog Input Polarity
- Two High Speed Digital Inputs:
  Frequency Speed Ref, Duty Cycle Torque Ref, Frequency Torque Reference, Duty Cycle Speed Ref, Frequency Monitor, Duty Cycle Monitor
- Two Open Collector, Two Relay Outputs:
  At Speed, Run, Fault, Reverse, Overload Alert, Over Temperatue Alert, Speed Detect Low, Speed Detect High, Torque Detect Low, Torque Detect Hi, Auto-Tune, Brake Actuate, Set High, Set Low, Fault
- Provision for directly connecting an external braking resistor.

## Specifications

**Max. Frequency:**
- 434 Hz

**Min. Speed:**
- 1% of base speed, induction motor
- 3 to 5% of no load speed, BLDC

**Speed Regulation:**
- Typically +/- 1 RPM

**Speed Accuracy (0-rated load):**
- Typically +/- 0.1% w/ BDM +/- 0.5% w/ ADM, as % of base or no load speed*

**Constant Torque Speed Range, induction motor:**
- 100:1

**Torque Response:**
- Typical 1.5 ms to 90% of commanded value

* Actual results based on motor type, construction and application.

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## DriveBlok® Technical Specifications

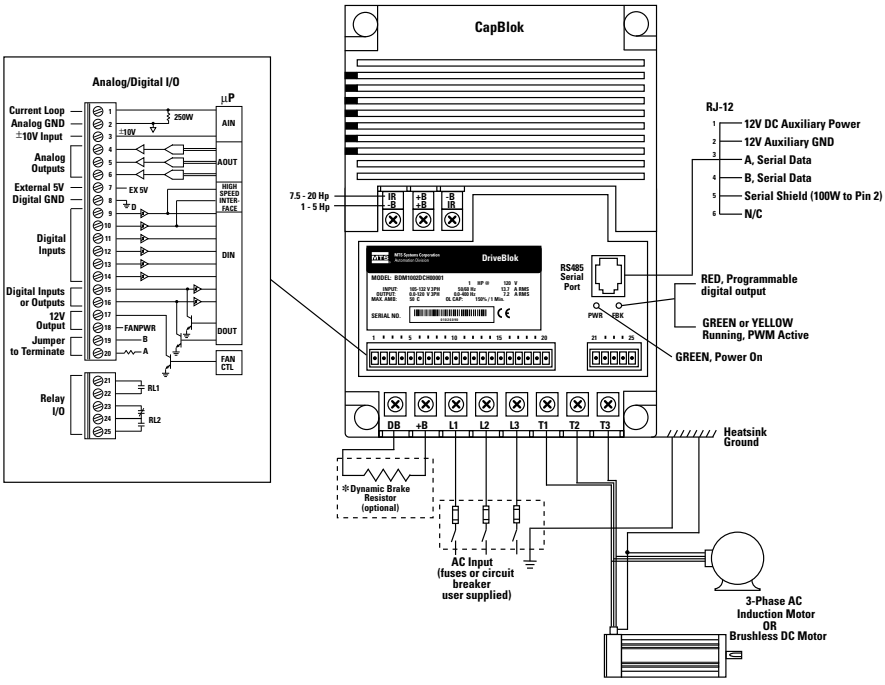
### 1000 Series

| DriveBlok Module Type Number | | 1001C | 1002C | 1003C | 1001D | 1002D | 1003D | 1005D | 1001E | 1002E | 1003E | 1005E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ADM, AC Induction Motor** | | | | | | | | | | | | |
| **AC Line Input Voltage** | VAC | 120V±10% | | | 200/240V±10% | | | | 380/480V±10% | | | |
| **Cont. Output Cur.(RMS)** | Arms | 4.0 | 7.2 | 10.4 | 3.6 | 6.8 | 9.6 | 15.2 | 1.8 | 3.4 | 4.8 | 7.6 |
| | Hp | 0. 5 | 1.0 | 1.5 | 1 | 2 | 3 | 5 | 1 | 2 | 3 | 5 |
| | kW | 0.38 | 0.75 | 1.12 | 0.75 | 1.5 | 2.2 | 3.7 | 0.75 | 1.5 | 2.2 | 3.7 |
| **% Overload 1 min** | % | 150% | 150% | 150% | 150% | 150% | 150% | 150% | 150% | 150% | 150% | 150% |
| **% Overload 3 sec** | % | 200% | 200% | 200% | 200% | 200% | 200% | 200% | 200% | 200% | 200% | 200% |
| **BDM Brushless PM Motor** | | | | | | | | | | | | |
| **Cont. Output Cur.(RMS)** | Arms | 4.0 | 7.2 | 10.4 | 3.6 | 6.8 | 9.6 | 15.2 | 1.8 | 3.4 | 4.8 | 7.6 |
| **Peak Output Cur.** | Arms | 8.0 | 14.4 | 20.8 | 6.8 | 13.6 | 19.2 | 30.4 | 3.6 | 6.8 | 9.6 | 15.2 |

### 2000 Series

| DriveBlok Module Type Number | | 2007D | 2010D | 2007E | 2010E | 2015E | 2020E |
|---|---|---|---|---|---|---|---|
| **ADM, AC Induction Motor** | | | | | | | |
| **AC Line Input Voltage** | VAC | 200/240V±10% | | 380/480V±10% | | | |
| **Cont. Output Cur.(RMS)** | Arms | 22 | 28 | 11 | 14 | 21 | 27 |
| | Hp | 7.5 | 10 | 7.5 | 10 | 15 | 20 |
| | kW | 5.6 | 7.5 | 5.6 | 7.5 | 11 | 15 |
| **% Overload 1 min** | % | 150% | 150% | 150% | 150% | 150% | 110% |
| **% Overload 3 sec** | % | 200% | 200% | 200% | 200% | 150% | 130% |
| **BDM Brushless PM Motor** | | | | | | | |
| **Cont. Output Cur.(RMS)** | Arms | 22 | 28 | 11 | 14 | 21 | 27 |
| **Peak Output Cur. (RMS)** | Arms | 44 | 56 | 22 | 28 | 31.5 | 36.5 |

## Connection Diagram




* Consult Dynamic Brake Resistor Data Sheet for standard available sizes.

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