ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Parker / Compumotor PDM1003D* at our website: *Click HERE*



1000/2000 Series
POWERBLOK® MODULE

Features
- A universal servo-drive integrated on a Power Hybrid Module.
- Designed for direct PWM Servo Control
- Designed for use with Deta Tau's PMAC controllers and other digital controllers.
- Focused on the demanding needs of design engineers in OEM and systems integration applications.
- All inputs are optically isolated.
- An optically isolated Gate Drive buffer array, translates the PWM commands into appropriately scaled IGBT drive signals to produce the PWM power waveforms required.
- High fidelity current feedback. This synchronized current feedback and control is one of the keys to the superior servo performance possible with an all digital PowerBlok® system.
- Choice of OEMs and system integrators requiring the flexibility to independently optimize the drive, heat sink and power supply, based on their specific needs.

Command Interface Features
- Optically isolated PWM commands
- Adjustable PWM freqeuncy to 10 kHz
- Dead Time logic to prevent IGBT shoot-through
- Digital Serial A/D motor current feedback
- 7 - segment fault /status display

Protection Features
- Short circuit and ground fault
- Instantaneous over-current protection
- Over-voltage, under-voltage protection
- Base plate over temperature
- PWM frequency fault
- Serial fault status feedback

Specifications
- AC Line Input Frequency:
  47 to 66 Hz
- Line Impedance:
  1% to 5%
- Voltages:
  120 V, 120/240 V, 200/240 V, 380/480 V
- Capacitance Required:
  Standard and High Capacitance CapBloks available
- Operating Temperature:
  0 - 70° C - module with sufficient heat sink
  0 - 40° C - (50° C, 1-3 Hp) - assembled drive configurations
- Storage Temperature:
  -20 - 100° C
- Max Substrate Temperature:
  90° C
- Relative Humidity:
  0 - 95% Non-condensing
- Altitude:
  1000m (3300 ft.) Max.
  De-rating 2 % for every 330 m (1000ft)
- Vibration:
  IEC68-2
- Efficiency:
  97% 6 - 21.5 kw Ratings
  95% 0.8 - 3.8 kw Ratings
- Power Ratings:
  0.8 to 2.1 kw at 120 Vac
  1 to 11.2 kw at 230 Vac
  1 to 21.5 kw at 460 Vac
- Fan Output, Max Allowable current:
  Series 1000, Start 600 mA, Run 300 mA
  Series 2000, Start 1.2 A, Run 800 mA
- Max allowable PWM:
  10 kHz, PWM frequencies over 5 kHz may require derating

MaxPlus® is a registered trademark of MTS Systems Corporation. ©2001 MTS Systems Corporation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

PowerBlok® Technical Specifications

1000 Series

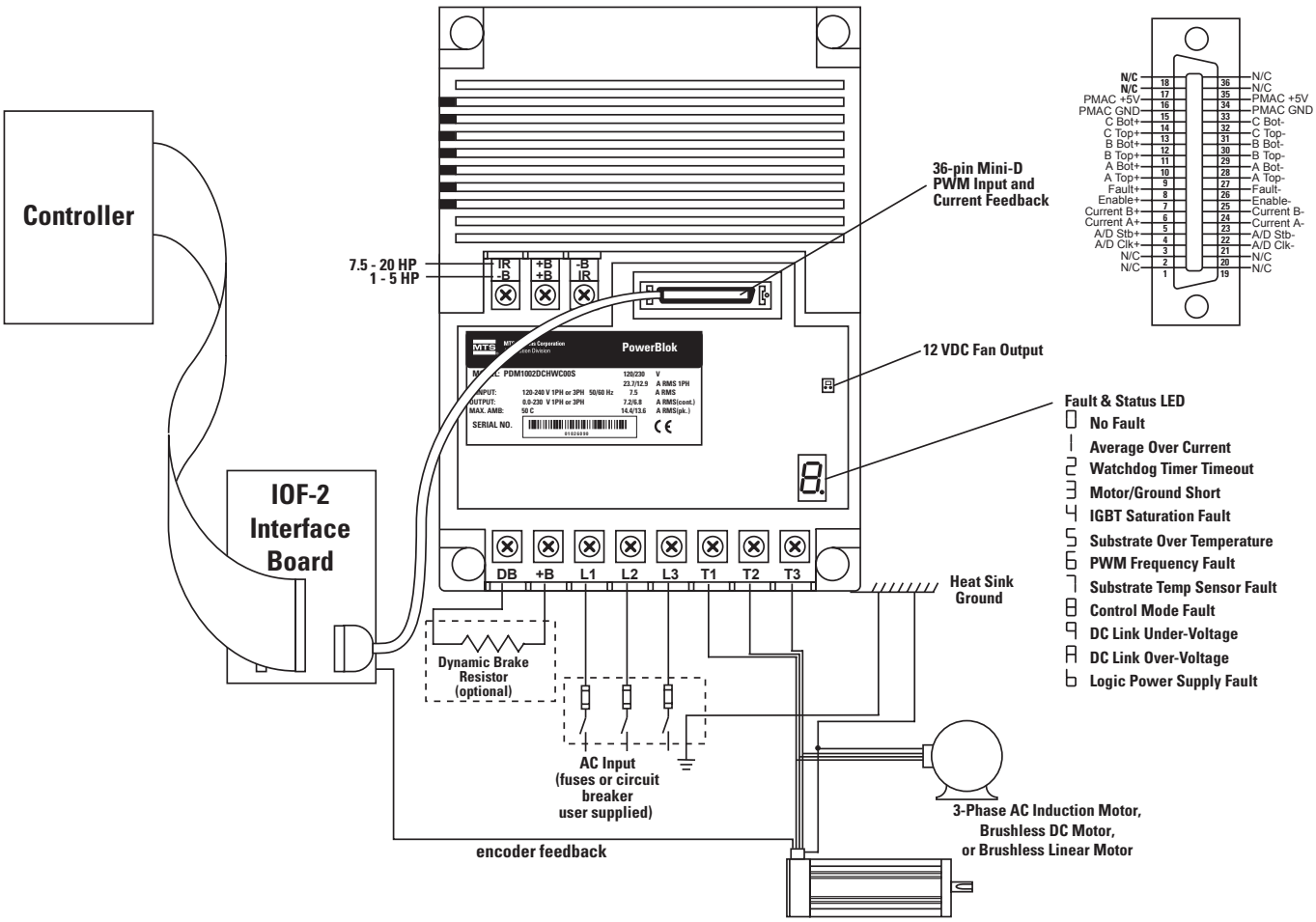
PowerBlok Module Type Number		1001C	1002C	1003C	1001D	1002D	1003D	1005D	1001E	1002E	1003E	1005E
PDM												
AC Line Input Voltage	VAC	120V±10%			200/240V±10%				380/480V±10%			
Cont. Output Cur.(RMS)	Arms	4.0	7.2	10.4	3.6	6.8	9.6	15.2	1.8	3.4	4.8	7.6
Peak Output Cur.(RMS)	Arms	8.0	14.4	20.8	6.8	13.6	19.2	30.4	3.6	6.8	9.6	15.2

2000 Series

PowerBlok Module Type Number		2007D	2010D	2007E	2010E	2015E	2020E
PDM							
AC Line Input Voltage	VAC	200/240V±10%		380/480V±10%			
Cont. Output Cur.(RMS)	Arms	22	28	11	14	21	27
Peak Output Cur.(RMS)	Arms	44	56	22	28	31.5	35

Connection Diagram

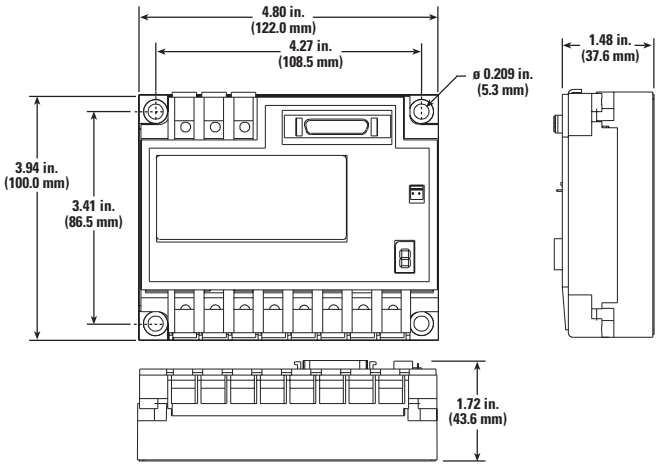
***Showing only 1 axis**



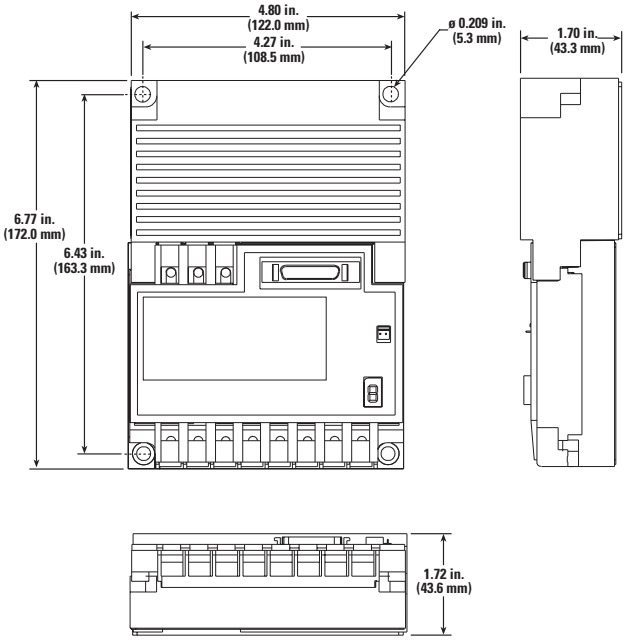
MaxPlus® is a registered trademark of MTS Systems Corporation. ©2001 MTS Systems Corporation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

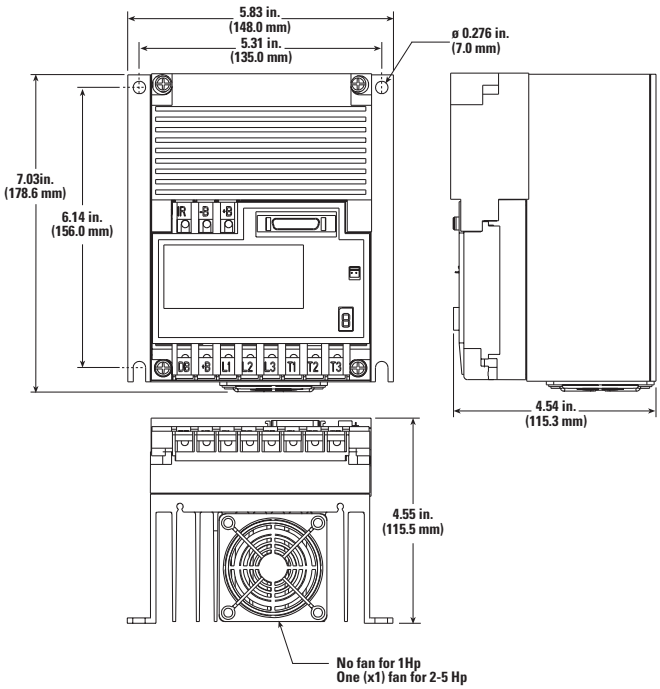
Module Dimensions



Module with CapBlok® Dimensions

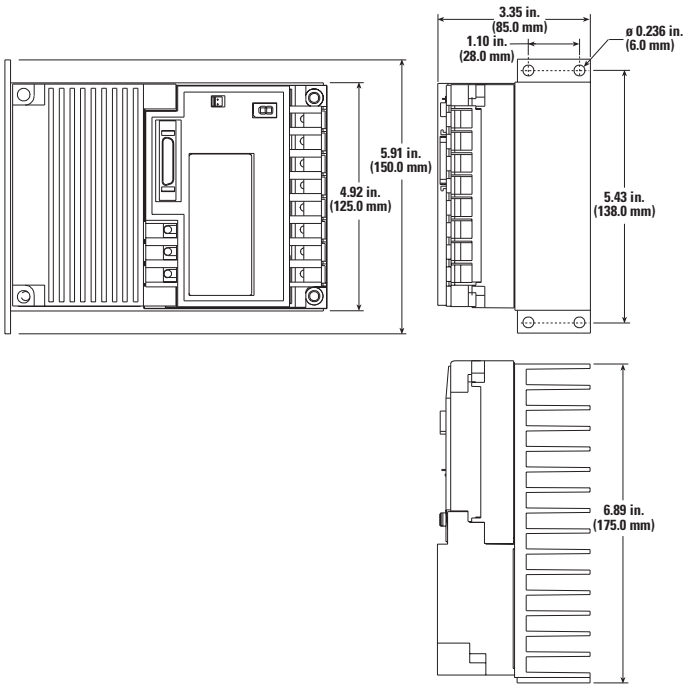


Wall Mount Dimensions



Bookend Dimensions

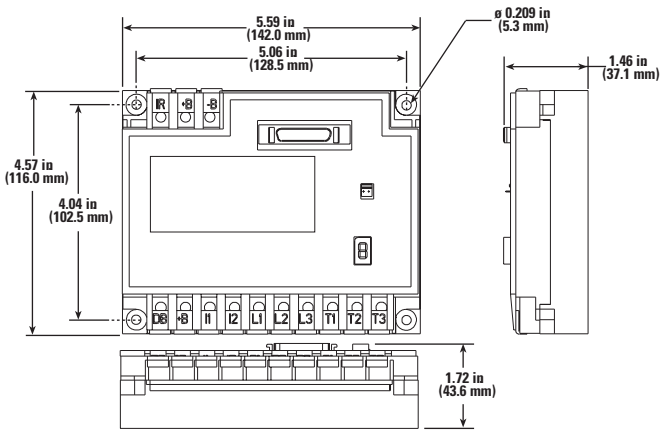
*** Available upon request**



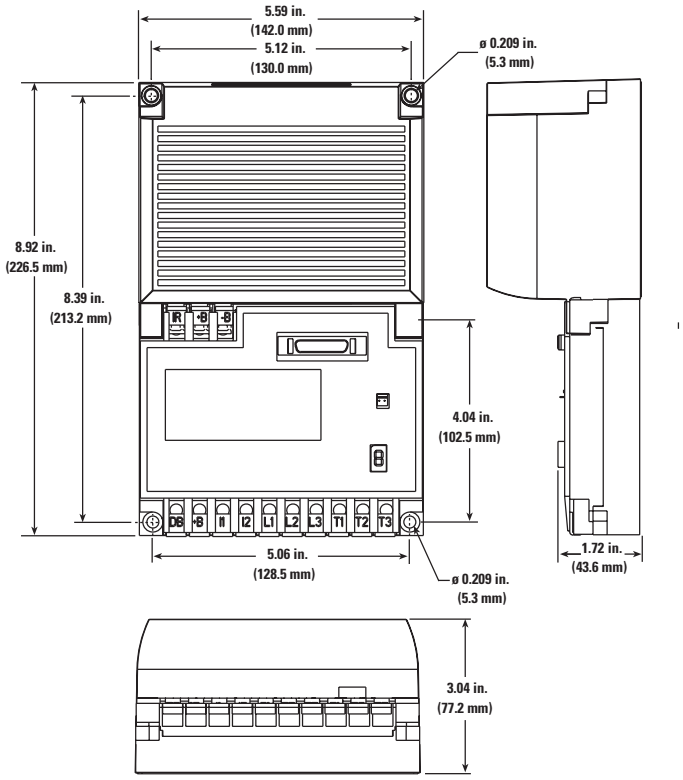
MaxPlus® is a registered trademark of MTS Systems Corporation. ©2001 MTS Systems Corporation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

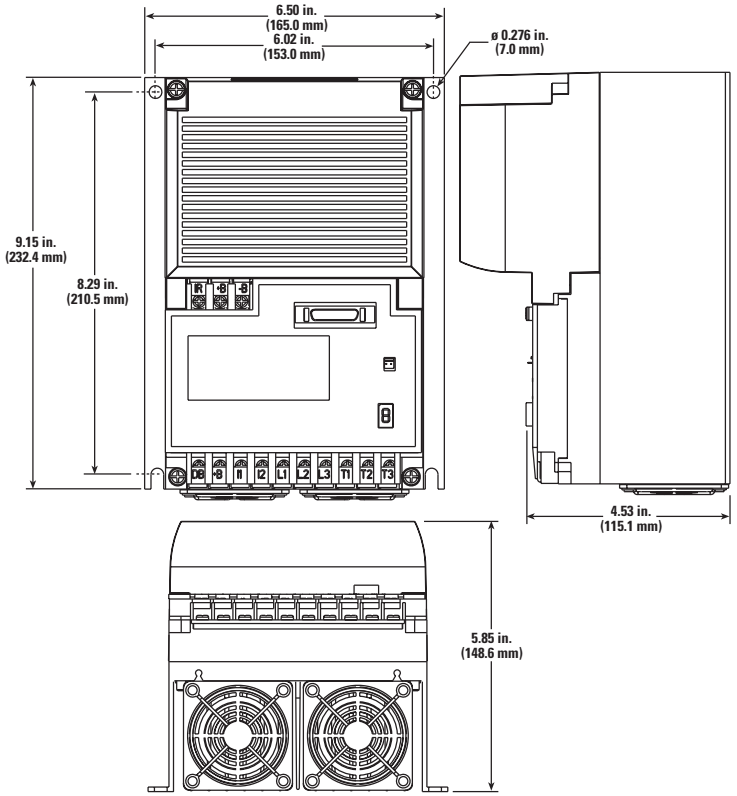
Module Dimensions



Module (7.5-10 Hp) Dimensions with CapBlok®



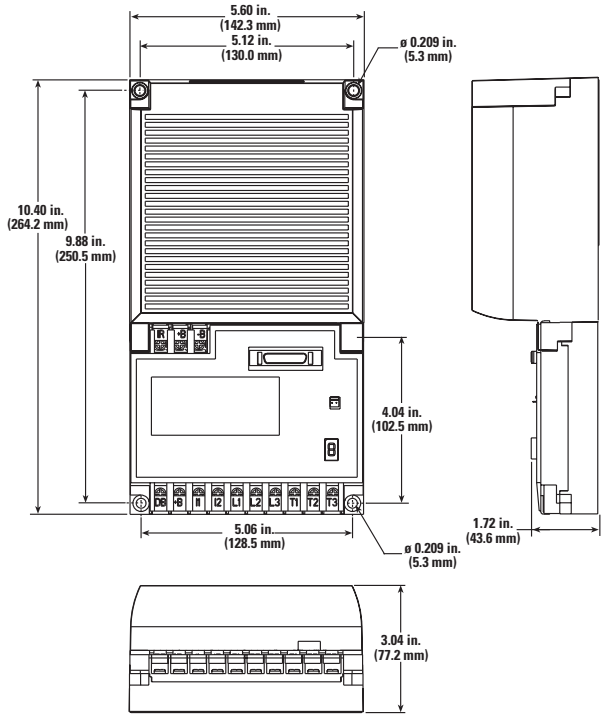
Module (7.5-10 Hp) Dimensions with CapBlok® and Heat Sink



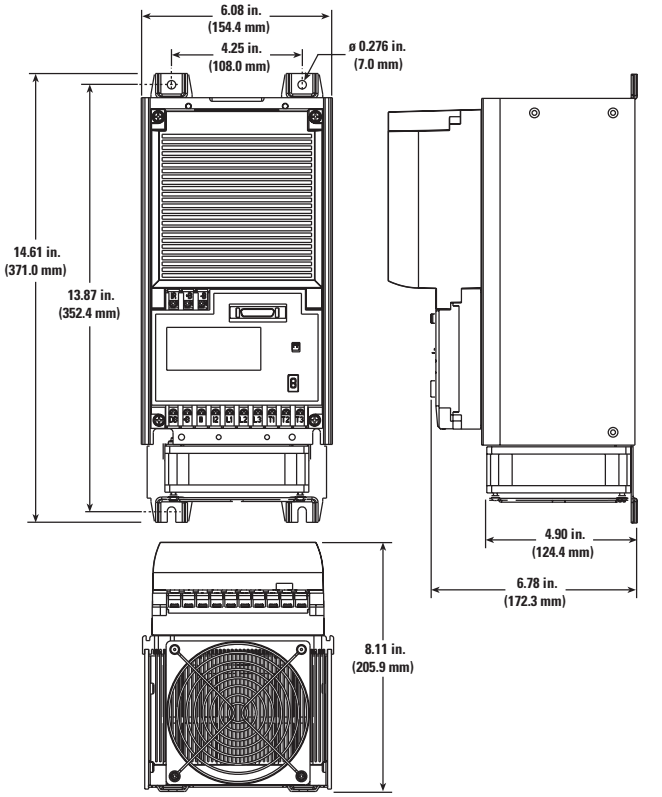
MaxPlus® is a registered trademark of MTS Systems Corporation. ©2001 MTS Systems Corporation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Module (15-20 Hp) Dimensions with CapBlok®



Module (15-20 Hp) Dimensions with CapBlok® and Heat Sink



PowerBlok Components & Accessories

120 VAC CapBloks

CS-1-C	0.5 Hp	CapBlok Module	120 VAC	2800 µF	50/60 Hz
CS-2-C	1.0 Hp	CapBlok Module	120 VAC	4200 µF	50/60 Hz
CS-3-C	1.5 Hp	CapBlok Module	120 VAC	4200 µF	50/60 Hz

230 VAC CapBloks

CS-1-D	1 Hp	CapBlok Module	200-240 VAC	540 µF	50/60 Hz
CS-2-D	2 Hp	CapBlok Module	200-240 VAC	1080 µF	50/60 Hz
CS-3-D	3 Hp	CapBlok Module	200-240 VAC	1080 µF	50/60 Hz
CS-5-D	5 Hp	CapBlok Module	200-240 VAC	1620 µF	50/60 Hz
CS-7-D	7 Hp	CapBlok Module	200-240 VAC	3000 µF	50/60 Hz
CS-10-D	10 Hp	CapBlok Module	200-240 VAC	3000 µF	50/60 Hz

460 VAC CapBloks

CS-1-E	1 Hp	CapBlok Module	380-480 VAC	135 µF	50/60 Hz
CS-2-E	2 Hp	CapBlok Module	380-480 VAC	270 µF	50/60 Hz
CS-3-E	3 Hp	CapBlok Module	380-480 VAC	270 µF	50/60 Hz
CS-5-E	5 Hp	CapBlok Module	380-480 VAC	405 µF	50/60 Hz
CS-7-E	7 Hp	CapBlok Module	380-480 VAC	750 µF	50/60 Hz
CS-10-E	10 Hp	CapBlok Module	380-480 VAC	750 µF	50/60 Hz
CS-15-E	15 Hp	CapBlok Module	380-480 VAC	1350 µF	50/60 Hz
CS-20-E	20 Hp	CapBlok Module	380-480 VAC	1350 µF	50/60 Hz

*Mounting hardware is not included within the CapBlok ship kit, but may be ordered separately.

MaxPlus® is a registered trademark of MTS Systems Corporation. ©2001 MTS Systems Corporation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



Miscellaneous Accessories

Part Number	Description
IOF-2	**Digital Interface Board** - Panel mount, terminal connectors for encoder feedback.
IOF-2-DR	**Digital Interface Board** - Din rail mount, terminal connectors for encoder feedback.
IOF-2-DB	**Digital Interface Board** - Panel mount, 15 pin D connectors for encoder feedback.
IOF-2-DR-DB	**Digital Interface Board** - Din rail mount, 15 pin D connectors for encoder feedback.
MK10	**Mount Kit** - Contains the mounting screws and "Thermastrate" thermal mounting pads for 10 1000 Series Blok and CapBlok assemblies.
MK20	**Mount Kit** - Contains the mounting screws and "Thermastrate" thermal mounting pads for 10 2000 Series Blok and CapBlok assemblies.
DBRXX-XXXX	**Dynamic Brake Resistor** - Consult Dynamic Brake Resistor Data Sheet for standard available sizes. For non-standard ratings - consult factory.

Ordering Chart

Example: PDM1005ECSWC00S

PDM	10	05	E	CS	WC	00S
CONTROL TYPE	**SIZE**	**RATING***	**VOLTAGE**	**CAPACITANCE**	**HEAT SINK**	**CONFIGURATION**
PDM = **PowerBlok**	10 - 1000 Series	01	C = 120 V	CS = Standard	BB = Bookshelf 1 Hp	00S = Standard
	20 - 2000 Series	02	D = 200/240 V	CH = High, rated for single-phase inputs on 1 and 2 Hp Drive Modules	WC = Wall Mount 1-5 Hp	XXX = Special
		03	E = 380/460 V		WE = Wall Mount 7.5-10 Hp	
		05			WG = Wall Mount 15-20 Hp	
		07				
		10				
		15				
		20				

* See technical specifications

MaxPlus® is a registered trademark of MTS Systems Corporation. ©2001 MTS Systems Corporation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP