

BALDOR



MotiFlexTM

Redefining Flexibility

**ETHERNET
POWERLINK**
STANDARDIZATION GROUP

MotiFlex™

Redefining Flexibility

Introducing Baldor's new range of high performance multi-axis drives, MotiFlex e100. Providing a single platform for drive solutions for automation needs. MotiFlex integrates state of the art DSP technology specifically designed for motor control, with a real-time Ethernet platform, modular construction and Baldor's unique motion control technology.

Flexible by Design

No two applications are identical, each require specific solutions tailored to specific requirements and performance needs. For example, choice of motor type and size has a specific cost / performance impact of design. Selection of fieldbus to match the customers preference, or third party device integration. All factors which complicate system design and choice of drive system vendor and hardware.

MotiFlex simplifies system architecture by providing a single, highly flexible drive and motion platform for automation. For example, control of linear and rotary servo and vector motors is simply a software configuration. Supported feedback devices range from simple cost effective encoders, through absolute multi-turn digital devices such as EnDat2.2, to, robust and vibration tolerant resolvers.

Real-Time Ethernet as Standard

Ethernet is now the 'de facto' standard for motion control in automation. With thousands of installed nodes, ETHERNET Powerlink has led the way in real-time Ethernet since its beginnings in 2003. Ethernet is integrated within MotiFlex as standard, and is the core around which its flexibility and scalability is achieved.

Energy Efficient DC Sharing

Energy costs are rising and machine efficiency is now a key challenge for modern machine designers. Energy generated during deceleration of loads is often simply discarded as heat in braking resistors. By connecting the DC energy bus of drives within a system, this energy can be utilized by powering other drives, not only improving efficiency but reducing heating within the cabinet by eliminating braking resistors in many applications.



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Overview

› **DC Bus Connection - Convenient Robust DC Link System**



- › Pre-made slot-in links
- › Simple to install
- › No proprietary backplanes required
- › Screw fixed cover for additional safety
- › Share regenerative energy
- › Improve system efficiency
- › Reduce the need for braking resistors

› **Keypad Support - Simple Diagnostics at Hand**



- › Status and diagnostics
- › Local operation mode
- › Parameter view / edit
- › Store / download parameter sets
- › Panel mount kit available

› **User I/O - Digital - Analog - 24V Backup**



- › Dedicated drive enable input
- › 2 fast inputs 1 μ S latency ideal for registration
- › 1 additional input
- › 2 Digital outputs. (eg. motor brake control)
- › +/-10v Differential analog input
- › 24V backup input to maintain communications and position feedback
- › Convenient 24v / signal routing channel for neighbour drives

› **Motor Feedback - Universal Encoder Interface**

- › Incremental encoders with/without halls
- › SSI Synchronous Serial Interface
- › EnDat 2.1 / 2.2 absolute encoders
- › 1v pk-pk SinCos Encoders
- › Resolver supported via plug-in option
- › Dual feedback capability
- › Host for system master encoder (line shaft) functions





Ethernet Integrated - Real-Time ETHERNET Powerlink

- › 2 port hub integrated - ease of connection
- › Real-time Ethernet performance
- › TCP/IP mode of operation (non real-time)
- › 3rd party Powerlink products support
- › Compatible with Baldor's e100 solutions



CANopen Integrated - Expand System I/O via DS401

- › CANopen network manager function
- › CANopen - Ethernet gateway function
- › DS402 Positioning Drive (as a controlled device)
- › DS401 I/O manager function
- › DS406 Encoder support
- › Fully isolated CAN channel



LED Status indication - Power - CANopen - Ethernet

- › Power / health status
- › CANopen communications
- › Ethernet communications
- › Ethernet node address selection
- › USB interface for service local access
- › Part number / serial number label, repeated for ease of reference



2 Expansion Slots - Range of Plug-in Options

- › Modular approach to drive configuration
- › Digital and analog I/O expansion
- › Additional feedback devices
- › Programmable Mint® motion controllers
- › Fieldbus gateways including -
 - Profibus Profinet IO
 - DeviceNet EthernetIP
 - Modbus RTU ModbusTCP
- › Safety modules & functions in development



Flexible Solutions Modular Enhancements

Modern machine design requires different solutions for each industry, application and even classes of machines within a product range. MotiFlex provides a platform which can be tailored to each application by use of modular design. Expansion and enhancement options can be fitted in the field to MotiFlex drives to provide additional functionality where demanded. From simple expansion of digital or analog inputs and outputs, additional feedback interfaces, fieldbus gateway solutions to more complex programmable functionality. All available as simple plug-in modules.

I/O expansion

System I/O can be optimized by adding digital or analog modules to one or more drives within a system. Where a few fast I/O are required the option modules provide a cost effective and compact route. For greater I/O count or distributed approaches, the integrated CANopen port can be used to manage CANopen DS401 I/O devices.

Dual Feedback and Line Shaft Encoders

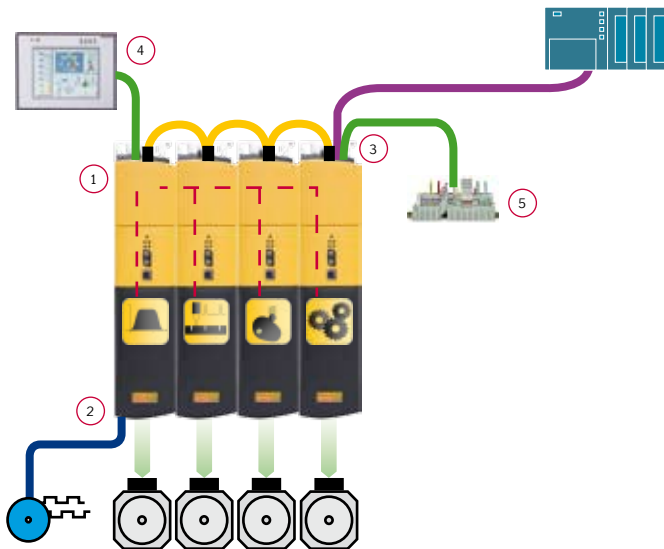
Second feedback channels can be added to MotiFlex to provide dual feedback solution for eliminating mechanical transmission errors. Alternatively feedback cards can be used to provide a convenient input source for encoders or resolvers. These can also be used in line shaft following applications where drives in the system will electronically synchronize to an external source.

Programmable Mint Options

The addition of a single axis Mint motion control card will convert the standard MotiFlex into a fully programmable multitasking motion controller.

The multiaxis version will convert a number of drives connected on Powerlink into a self contained coordinated machine control system, with major savings on installation and component costs in the most compact package.





Example System Showing a MultiAxis DC Shared Solution with Integral Motion.

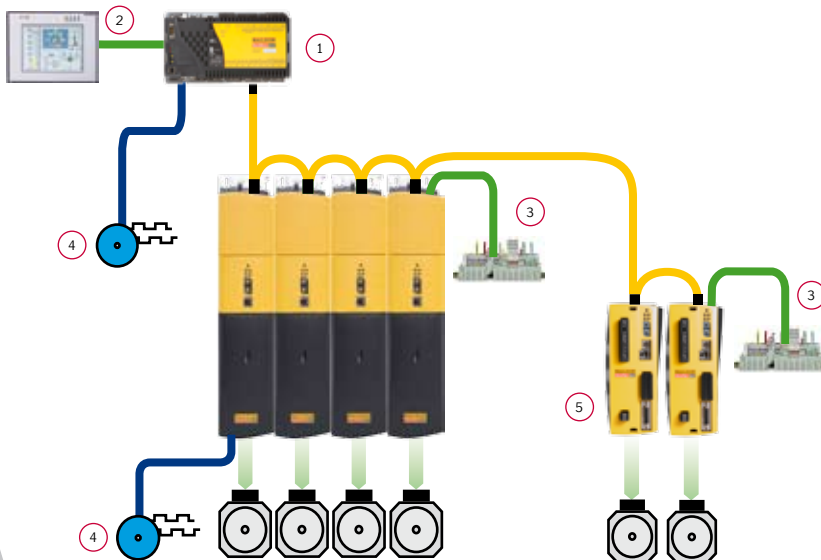
Options fitted -

1. Mint multiaxis motion control
2. Second feedback card for 'line shaft' following
3. Fieldbus Gateway Interface

Other system features

4. HMI connected to the 1st drive on CANopen
5. Additional distributed I/O on CANopen from any drive

Compact solution, with no external motion controller or PLC required.



Example 2 - MultiAxis DC Shared Solution with NextMove e100

1. Powerful external motion controller which can profile up to 16 axes in tight coordinated motion. and additional DS402 independent axes

Other system features

2. HMI connected to the NextMove on CANopen
3. Additional distributed I/O on CANopen from any drive
4. Additional line shaft encoders can be connected to drive or motion controller
5. Additional Microflex e100 drives axes on powerlink.

NextMove e100 solution capable of more axes, including stepper and analog axes.

NextMove e100 and MicroFlex e100 are part of the Baldor 'Ethernet ready' motion control range. For more information on these products see BR1202-I Real Time Ethernet Solutions brochure or contact a local sales office (details on back cover).

More information can be found at www.baldormotion.com



DC Shared Operation

Energy Efficient Design

As energy costs rise, efficiency of machine operation becomes an increasingly critical measure of modern machine design. Energy generated by axes during braking or load driven operations is often wasted as heat in regeneration resistors. The simplest and most cost effective solution is allowing other drives to consume the energy. All MotiFlex drives include the ability to share DC energy as standard and more uniquely are able to provide power to other drives. Each MotiFlex drive can convert power from the AC supply to share with other drives, eliminating the need for separate power supplies.

Additional Cost Savings

MotiFlex DC shared systems reduce the number of line side components such as contactors, MCB's, fuses and cabling, reducing cost, simplifying design and inherently improving reliability through reduction of components and complexity.

The ability to power other drives eliminates the need for a separate DC power supply in many applications, further reducing system costs. And where required, a single regenerative resistor can be added to provide any occasional or safety margin power dissipation requirements

Intelligent DC bus Pre-Charge Control

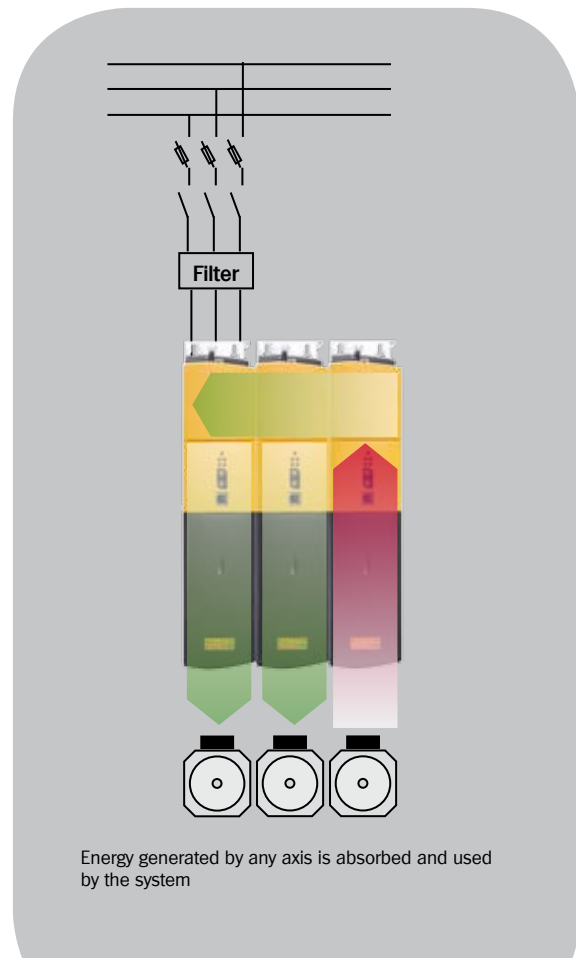
Inrush current can be problematic, causing troublesome fuse trips. The only approach is often over sized fusing, contactors and cabling to compensate, than would otherwise be preferred for correct discriminative fuse protection and cost. Each MotiFlex drive features an intelligent pre-charge system. Powered from AC, in Stand-alone operation, or as a shared DC system, the pre charge is active in all drives. This reduces the peak charging currents preventing fuse failure and inherently reducing stress on capacitors, increasing the operational life of the drives.

Simple, Reliable DC Bus Connection

A simple and robust DC bus connection system is integrated into each drive. The links can be easily installed by opening the DC bus bar cover on the top of the drive, which is screw locked for additional security and safety. Easily installed in minutes and inherently less costly and more reliable than proprietary backplane approaches.

24V Input to maintain Communications

Modern machine safety design often requires main power to be removed from the drive system. In such scenarios, maintaining power to electronics for communications, diagnostics capability and position of axes, is critical for reducing downtime and eliminating unnecessary homing sequences. A dedicated 24v input is provided, maintaining all critical systems.



Energy generated by any axis is absorbed and used by the system

Reliability by Design

Protection Features

Phase Loss Detection

Loss of power or disruptions to any phase could affect performance and temporary or random disruption are often difficult to diagnose. The ability to monitor loss of any phase for a duration outside normal expected tolerances, provides a simple mechanism to detect such faults. Minor disturbances are overcome with 'ride-through' operation.

DC Bus Over / Under Voltage

Loss of AC/DC power below operational levels, excessive voltage due to supply issue or excessive regeneration is monitored and reported. DC bus voltage can be monitored in real-time.

Power Module Temperature Monitoring

The latest in power silicon design provides information on health and operation, including silicon temperature. Software models monitor temperature and system parameters, to maximize drive utilization and provide protective shutdown due to system faults or unusual overload conditions.

Internal Temperature Monitoring

Drive temperature is monitored by on board sensors which automatically control fan operation as necessary. In addition, warning conditions can be configured that allow the application designer to provide a control mechanism to reduce loading, while maintaining operation in critical applications. Or provide sufficient warning to provide the operator or automated machine application, time to implement a controlled shut down. The drive will continue to operate until the over temperature fault level is reached. All warnings and faults are logged for aiding diagnostics.

SMPS Over-Voltage and Short Circuit Protection

All internal power supplies are protected against over temperature, excessive input voltage and short circuits at user voltage terminals.

Hardware 'Dead-Time' Interlock

Dedicated hardware prevents the catastrophic failure that would result if the wrong combination of output transistors were switched on simultaneously. Software approaches alone can not be guaranteed to prevent failures of this type.

Motor Over Temperature Input

A dedicated motor temperature trip input will shut down the drive in the event of motor windings reaching maximum temperature levels, preventing damage that would otherwise result if operation continued.

Motor Short Circuit Protection

Intelligent power design provides best possible protection against output short circuits due to wiring faults and motor winding failures..

DC Link Fusing

Both connections to the MotiFlex DC bus are internally fused separately. In the event that a fault were to occur, that drive would become isolated minimizing risk of further damage to the DC bus system and neighbouring drives. Many drives manufacturers do not fuse both DC link connections, so can not guarantee protection.

It Motor and Drive Protection Models

Software models are employed to continuously monitor motor and drive utilisation and predict overload conditions before they present a problem. Current limits are flexible and can be dynamically limited in the event of reaching overload areas. Alternatively the system can be configured to shut down.

Fan Loss Detection

Cooling fans include self diagnostics, providing warning in the event of fan failure, or obstruction reducing maintenance issues and downtime by accurately determining the fault and preventing troublesome drive trips due to over-temperature that may result as a loss of fan operation.

ETHERNET Powerlink

Real-Time Control

Ethernet is the single technology replacing traditional drive interfaces, discrete signals, fieldbus communications and service interface in applications today. As the first real-time Ethernet solution in industry, ETHERNET Powerlink (EPL) is a proven technology, working in real applications world wide. It embraces standard Ethernet technology and infrastructure, uses standard CAT5e shielded cabling and does not compromise standard Ethernet frames in order to achieve its results. It does so with less than 1µS cyclic jitter for precise control, and with cyclic updates rates down to 200µS for fast system response.

Flexible System Architecture

In addition to these characteristics ETHERNET Powerlink is also well suited to both centralized platforms such as Baldor's NextMove motion control products and distributed intelligent drives such as MotiFlex and MicroFlex e100.

Open Standard Driven by Industry

ETHERNET Powerlink is a truly 'open' technology independently managed by the Ethernet Powerlink Standardization Group, of which Baldor is a key member.

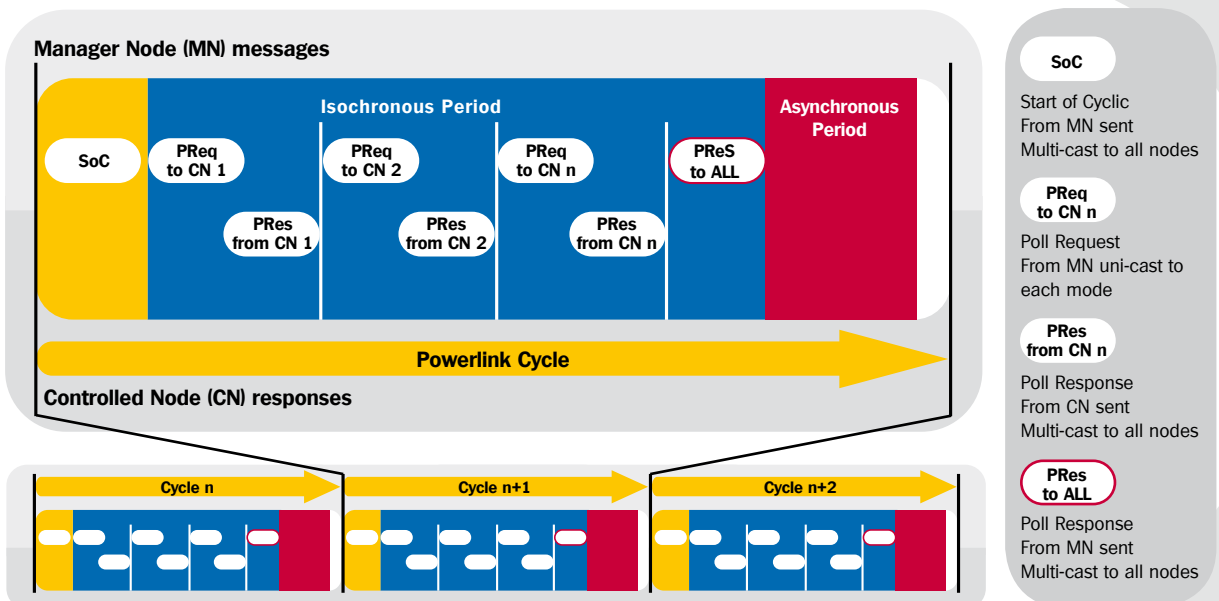


› Deterministic Ethernet – The Simple Solution

ETHERNET Powerlink (EPL) achieves its performance managing the device communication within allocated time slots in a defined sequence.

This approach prevents collisions from ever occurring

and ensures that data is exchanged precisely and on schedule. Asynchronous communications, such as service data, takes place at the end of each cycle during a dedicated time segment.

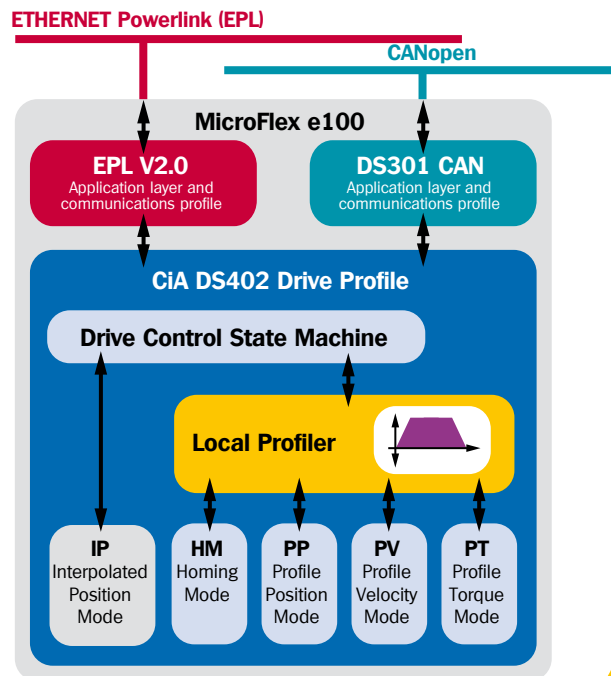


CANopen Features

CiA DS402 Positioning Drive Profile

Powerlink drives are based on the CAN in Automation (CiA) DS402 profile for positioning drives. This results in a drive technology which is inherently more flexible and intelligent. Drives not only provide velocity or torque regulation, but can also perform positioning tasks such as relative and absolute moves, and homing sequences. And all with minimal overhead on the motion controller. The NextMove e100 can coordinate up to 16 axes in closely coupled motion such as vectors, arcs and helical paths. It also manages DS402 drives which vastly expands the number of axes that can be controlled. DS402 is ideal for axes such as positioning guides, indexers, conveyors, tension rollers and many more.

MotiFlex e100 supports the CiA DS402 positioning drive profile, providing local positioning functions for simple axis control.



Powerlink Absolute Encoders

Absolute encoders can be added on Ethernet to create additional axis measurement or to act as machine cycle masters in 'line shaft' replacement and synchronization applications.

Powerlink I/O Devices

I/O blocks can be added to Powerlink to provide fast and distributed I/O which is synchronous to the control cycle.

Powerlink Gateway/Router

Provides a means of connecting ETHERNET Powerlink networks on to a factory LAN/WAN (Local Area Network and Wide Area Network). This provides means of servicing or monitoring machine level devices and even remote access for technical support.

Additional Network Devices

A wide variety of additional system devices are available from Baldor and other vendor members of the ETHERNET Powerlink Standardization Group (EPSG).

For details visit - www.ethernet-powerlink.org

CANopen Device Support

Baldor's e100 family of products feature an integrated CANopen port and can manage a private network of CANopen DS401 I/O devices. In the case of the MotiFlex and MicroFlex e100, I/O can be connected to any convenient drive. The drive will manage the CANopen I/O and make this available, via Ethernet, to the motion controller where it can be used as local I/O. In essence there can be multiple independent CANopen networks distributed around the machine managed by each drive, but controlled centrally from the motion controller.

Baldor TCP/IP Mode via ActiveX

Not all applications require real-time coordination down to μs level. Many simply require a number of axes to be managed, issuing simple move commands when necessary to individual or groups of axes. This principle is fully supported on Baldor motion and servo drives. This is achieved in an *open* mode, without the normal cyclic update of Powerlink. ActiveX tools provide an interface for a host Windows application to issue commands such as relative moves, homing sequences, parameter changes, monitoring functions and even configuration and firmware download operations.

MotiFlex™ e100

ETHERNET Powerlink AC Servo Drive



- › Real-time Ethernet with integrated hub
- › CiA DS402 Positioning on ETHERNET Powerlink or CANopen
- › CANopen DS401 network manager for low cost I/O expansion
- › USB port for service / PC based control via ActiveX®
- › Linear and rotary motor control
- › Universal encoder interface
- › 180 – 528 VAC 50/60Hz supply
- › 1.5 to 34A with flexible overload ratings
- › Servo and AC closed loop vector control
- › Stand alone and DC shared operation



MotiFlex e100 is built on Baldor’s expertise in servo drive technology. The advanced capabilities of real-time ETHERNET Powerlink provide superior performance, network integration and cost savings. MotiFlex e100 uses Space Vector Modulation (SVM) for superior motor control and efficiency. Numerous protection features are designed in for reliability and safety.

› Technical Data



Approvals	CE, UL, cUL				
SIZE A Drives	MFE460A001	MFE460A003	MFE460A006	MFE460A010	MFE460A016
Power Requirements	3 Phase 180-528 VAC 50/60Hz				
Current Rating (Nominal) 200% (3s) Overload 8kHz PWM	1.5 Amp continuous 3 Amp peak	3 Amp continuous 6 Amp peak	6 Amp continuous 12 Amp peak	10.5 Amp continuous 21 Amp peak	16 Amp continuous 32 Amp peak
Current rating (Dynamic) 300% (3s) Overload 8kHz PWM	1.15 Amp continuous 3.45 Amp peak (3s)	2.75 Amp continuous 8.25 Amp peak	4.5 Amp continuous 13.5 Amp peak	7.33 Amp continuous 22 Amp peak	12 Amp continuous 36 Amp peak
Current Rating (Vector Duty) 150% (60s) Overload 8kHz PWM	2 Amp continuous 3 Amp peak (3s)	3.8 Amp continuous 5.7 Amp peak	7 Amp continuous 10.5 Amp peak	13 Amp continuous 19.5 Amp peak)	16 Amp continuous 24 Amp peak
Current Rating (Const. Torque) 110% (60s) Overload 8kHz PWM	2.7 Amp continuous 2.97 Amp peak (3s)	4.5 Amp continuous 4.95 Amp peak	8 Amp continuous 8.8 Amp peak	15 Amp continuous 16.5 Amp peak	17 Amp continuous 18.7 Amp peak

› Features and Specifications

Ethernet	Specification: 100Mbit - IEEE802.3u compliant Protocol : ETHERNET Powerlink V2 (EPL) and IP protocols TCP/UDP Interface : Integrated 2 port Hub for daisy chain connection Cable type : CAT5e Shielded cable, RJ45 connectors, Max 100m (330ft) Address: 2 rotary HEX switches sets node and IP address Function : EPL /CiA DS402 Positioning Drive
Communications	ETHERNET Powerlink for real-time control and system networking, USB for configuration CANopen - DS402 Positioning drive profile or drive can manage local CAN DS401 I/O devices for system I/O expansion
Digital Inputs	4 total - opto-isolated 24V, 1mS sample rate including the following functions: 1 reserved for drive hardware enable 2 inputs with high speed position latch - for registration applications. <1µS latency May be connected positive or negative common for use with NPN or PNP signals Software configurable level/edge triggered an application functions e.g. HOME, LIMIT, STOP
Digital Outputs	2 opto-isolated 12-24VDC PNP, 50mA per channel, 100mA max load for single channel, 200mA Fuse level (self resetting) Software configured functions including Motor Brake control (requires external relay)
Indicators	1 off LED for drive status/health 2 off LEDs for Ethernet activity 2 off LEDs for CANopen activity
Operating modes	Profiled Torque (current), Profiled Velocity (speed), Profiled Position - including Homing, Incremental absolute moves etc. Interpolated position mode with Mint motion controllers. Servo & closed loop vector motor support
CANopen	Isolated CAN port via standard 9 pin Sub-D connector. CANopen DS301: Manager of CANopen DS401 I/O devices and DS406 Encoder support when used with NextMove e100 products CiA DS402 Positioning drive mode via CANopen (controlled device)
Feedback Devices	Universal Encoder Interface, supporting: - SSI encoders 13-18 bit single and multi-turn - EnDat absolute encoders (v2.1 and v2.2) - Commutating incremental encoders (with Hall effect sensors). 5V differential signals. - Hall sensor only for DC trapezoidal control - 1V Peak - Peak Sin/Cos analog encoders with onboard interpolation
Regenerative braking	Integrated IGBT output. Requires external resistor
Control Supply	24 VDC ±10% : Nominal 1.5 Amp externally supplied to maintain electronics when AC supply is removed (No current drawn with AC power applied).
Protection	DC bus over voltage monitoring; DC bus under voltage monitoring; Peak over-current; Motor short circuit; Over temperature; I2T over current, network failure, etc.
Dimensions	Size A H: 350 mm (13.78") W: 79 mm (3.13") D: 260 mm (10.31") Size B H: 350 mm (13.78") W: 129 mm (5.07") D: 260 mm (10.31")
Weight	Size A 1.45 to 1.55 Kg (3.4 lbs.)
Environmental limits	Temperature range 0°C to 45°C (32°F to 113°C) with derating to 55°C

SIZE B Drives



MFE460A020

MFE460A027

MFE460A034

3 Phase 180-528 VAC 50/60Hz

Size B drives available Q2 2007 - ratings to be confirmed

› Ordering Information



MotiFlex e100

Size A

Catalog Number	Description (nominal ratings)
MFE460A001	MotiFlex e100 AC Servo Drive 1.5 Amp continuous, 180-528VAC 50/60Hz
MFE460A003	MotiFlex e100 AC Servo Drive 3 Amp continuous, 180-528AC 50/60Hz
MFE460A006	MotiFlex e100 AC Servo Drive 6 Amp continuous, 105-230VAC 50/60Hz
MFE460A010	MotiFlex e100 AC Servo Drive 10.5 Amp continuous, 180-528VAC 50/60Hz
MFE460A016	MotiFlex e100 AC Servo Drive 16 Amp continuous, 180-528AC 50/60Hz

Size B Units Available Q2 2007

MFE460A020	MotiFlex e100 AC Servo Drive 20 Amp continuous, 105-230VAC 50/60Hz
MFE460A027	MotiFlex e100 AC Servo Drive 27 Amp continuous, 180-528VAC 50/60Hz
MFE460A034	MotiFlex e100 AC Servo Drive 34 Amp continuous, 180-528AC 50/60Hz

EMC Filters



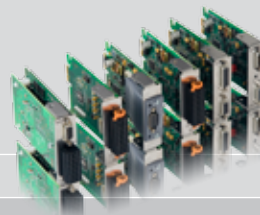
Catalog Number	Description
FI0035A00	EMC 3 phase Filter 8A @40°C (3 x 520VAC, 8A)
FI0035A01	EMC 3 phase Filter 16A @40°C (3 x 520VAC, 16A)
FI0035A02	EMC 3 phase Filter 25A @40°C (3 x 520VAC, 25A)
FI0014A00	Optional EMC Filter for 24V Supply

Line Reactors

Line reactors for operation on poor quality AC supplies or in DC shared systems to compensate for line imbalances.

Catalog Number	Inductance	Description
LRAC00802	3mH -	1.5A or 3A units operating stand alone on poor quality AC supply
LRAC02502	1.2mH -	6A to 16A units operating stand alone on poor quality AC supply
		1.5A to 6A units in DC shared systems
LRAC03502	0.8mH	10.5A and 16A units DC shared systems

Plug-in Options



2 Option Slots per Drive

Catalog Number	Description
OPT-MF-001	Analog I/O +/-10v 16bit 4IN 4OUT
OPT-MF-005	Digital I/O 12-24V operation 6 digital inputs 4 digital outputs.
OPT-MF-011	Encoder + halls option with simulated encoder output. Selectable encoder output ppr
OPT-MF-013	Resolver option with simulated encoder output 12/14bit resolution. Selectable encoder output ppr

Programmable Options (Available Q2 2007)

OPT-MF-100	Single axis Mint card. Incremental encoder input + digital I/O.
OPT-MF-101	Multiaxis Mint card. Incremental encoder input + digital I/O. Control up to 4 axes in interpolated motion

Fieldbus Options (Available Q2 2007)

OPT-MF-030	Fieldbus gateway carrier card. Must be ordered with any Fieldbus module
OPT-FB-001	DeviceNet
OPT-FB-002	Profibus DP
OPT-FB-003	Modbus RTU
OPT-FB-004	EthernetIP
OPT-FB-005	ModbusTCP
OPT-FB-006	Profinet IO
OPT-FB-007	CC Link

Contact sales office for more information on supported fieldbus options

Cable Management Brackets



Catalog Number	Description
OPT-CM-001	AC power and motor power brackets
OPT-CM-002	Signal and feedback cable bracket

DC Bus Bars



Packs of two - length sizes to suit size A and Size B packages

Catalog Number	Description
OPT-MF-DCA	Pack of 2 links for size A drives (1.5A to 16A)
OPT-MF-DCB	Pack of 2 links for size B drives (20A to 34A)

NextMove e100



Catalog Number **Description**

NXE100-16xx	NextMove e100 - 8,12 or 16 Axis motion controller: Differential stepper outputs
NXE100-16xxS	NextMove e100 - 8,12 or 16 Axis motion controller: Single ended open collector stepper outputs for use with DSM integrated stepper/driver motors

xx = 08, 12, or 16 for number of supported axes

MicroFlex e100



Catalog Number **Description**

MFE230A003	MicroFlex e100 AC Servo Drive 3 Amp continuous, 105-230VAC 50/60Hz
MFE230A006	MicroFlex e100 AC Servo Drive 6 Amp continuous, 105-230VAC 50/60Hz
MFE230A009	MicroFlex e100 AC Servo Drive 9 Amp continuous, 105-230VAC 50/60Hz

MicroFlex EMC Filters



Catalog Number **Description**

FI0029A00	EMC Footmount Filter (22A) single phase power for all power ratings (2 x 250VAC, 22A)
FI0015A00	EMC Filter for 3A single phase power (2 x 250VAC, 6A)
FI0015A02	EMC Filter for 6A single phase power (2 x 250VAC, 12A)
FI0029A00	EMC Filter for 9A single phase power (2 x 250VAC, 22A)
FI0018A00	EMC Filter for 3A three phase power (3 x 480VAC, 7.7A)
FI0018A00	EMC Filter for 6A three phase power (3 x 480VAC, 7.7A)
FI0018A03	EMC Filter for 9A three phase power (3 x 480VAC, 17.5A)
FI0014A00	EMC Filter for 24V Supply

MicroFlex Braking Resistors



Catalog Number **Description**

RG56	44W regen resistor for use with 3A MicroFlex
RG39	100W regen resistor for use with 6A / 9A MicroFlex

MicroFlex Fan Tray

Provides forced air cooling for MicroFlex e100. Required if average current is above 3A RMS.

Catalog Number **Description**

FAN001-024	Fan tray for single MicroFlex
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Ethernet Cables for EPL

Catalog Number **Description**

CBL002CM-EXS	200mm (8") CAT5e Shielded RJ45 Ethernet Cable
CBL005CM-EXS	500mm (1.6ft) CAT5e Shielded RJ45 Ethernet Cable
CBL010CM-EXS	1m (3.2ft) CAT5e Shielded RJ45 Ethernet Cable
CBL020CM-EXS	2m (6.5ft) CAT5e Shielded RJ45 Ethernet Cable
CBL050CM-EXS	5m (16.3ft) CAT5e Shielded RJ45 Ethernet Cable
CBL100CM-EXS	10m (32.6ft) CAT5e Shielded RJ45 Ethernet Cable

Cables



A range of cables, both pre-made and raw, are available. These include motor power cables, feedback cables and communication cables. Available in different lengths, the pre-made cables are fitted appropriate connectors at both ends, reducing setup time and costs significantly.

Further details can be found in the brochure BR1202-H

Power Supply Units



Baldor offer a range of 24V power supply units (PSU) that are ideal for powering NextMove motion controllers and the control electronics of the Baldor servo drives. With universal 110-240VAC input, the PSU's are available with current ratings of 3.2A (75W), 5A (120W) and 10A (240W). A 120W unit is capable of powering a single NextMove e100 and three MicroFlex e100 drives.

Catalog Number **Description**

DR-75-24	24V Universal Power Supply. 75W/3.2A output
DR-120-24	24V Universal Power Supply. 120W/5.0A output
DRP-240-24	24V Universal Power Supply. 240W/10A output

Refer to catalog BR1202-H for full information.

Programmable HMI Panels



Baldor's range of programmable HMI panels offers everything from simple text displays through to large color touch screen panels.

- › Text displays from 4x20 character displays to 8x40 with keyboard entry
- › Touch screen displays from mono 3.8" to color TFT 12.1"

All displays are programmable with an easy to use Windows front end, removing the burden of handling the HMI task from the motion controller. Communications to NextMove is via serial or CANopen communications.

Refer to catalog BR1202-H for full information.

Baldor's Motion Solutions Catalogs

- BR1202-A** Motion Control Solutions
- BR1202-B** Mint[®] Software and Applications
- BR1202-C** NextMove Multi-Axis Motion Controllers
- BR1202-D** AC Servo Drives
- BR1202-E** AC Servo Motors
- BR1202-F** DC Servo Motors and Drives
- BR1202-G** Linear Motors and Stages
- BR1202-H** Motion Product Accessories
- BR1202-I** Real-Time Ethernet Motion Solutions
- BR1202-M** MotiFlex - Multiaxis Drives

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