



A MEMBER OF THE ESTUN GROUP

TRIO MOTION TECHNOLOGY DX3 SERVO PACKAGES



- THE MOTION SPECIALIST -

DX3

200V - 480V Servo Solutions

Cost Optimised Servo Drive With STO

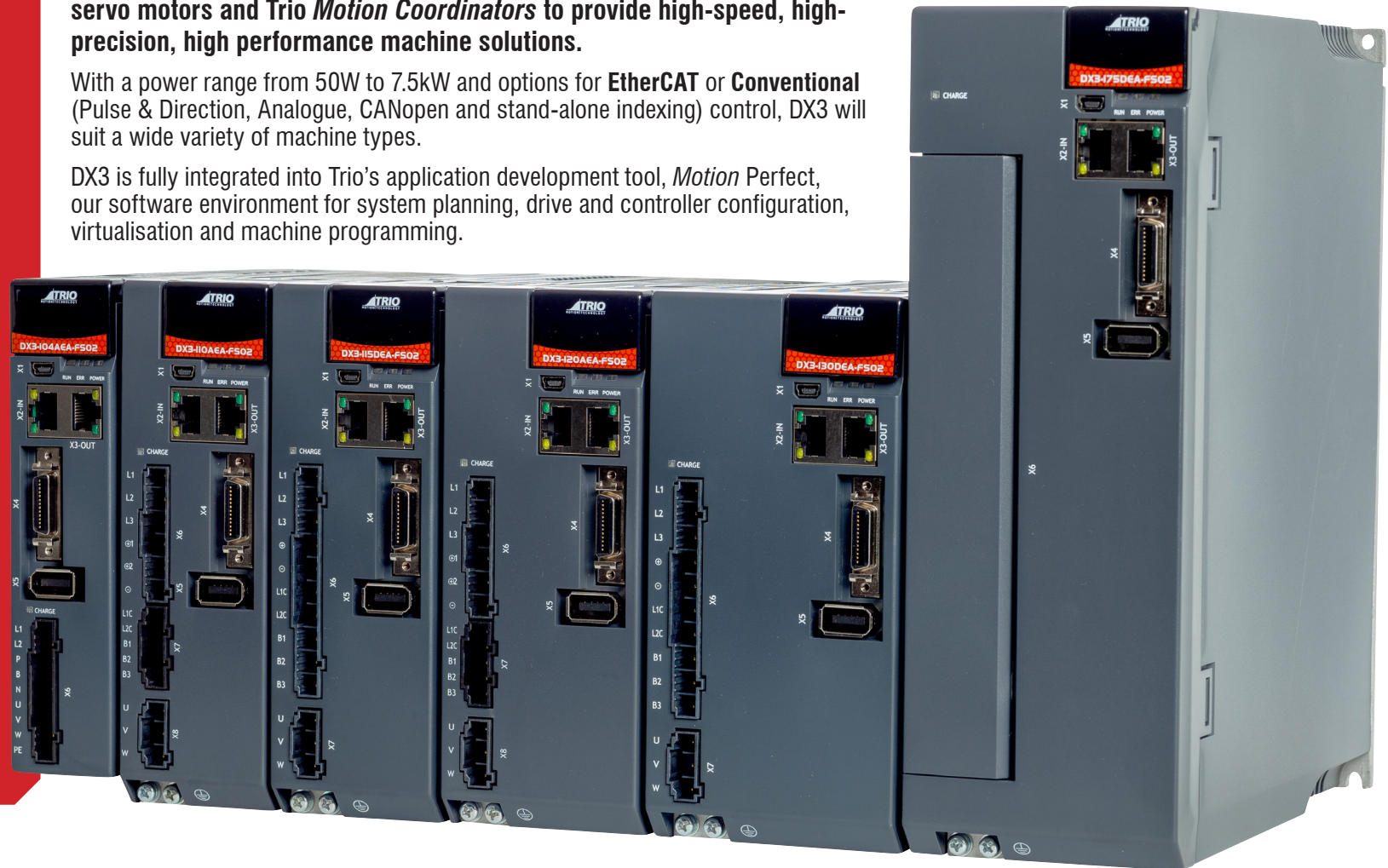
AT A GLANCE

- ★ Fully integrated into *Motion Perfect*
- ★ Matched with Trio's MX motor range
- ★ Internal drive protection functions
- ★ Comprehensive tuning technology
- ★ Functional Safety STO (SIL3, PLe) - EtherCAT drives only
- ★ Field upgradable firmware
- ★ Electronic motor nameplate
- ★ Compact size
- ★ Zero stacking
- ★ USB or EtherCAT commissioning
- ★ Keypad interface
- ★ 200V ac from 50W to 2kW
- ★ 480V ac from 1kW to 7.5kW
- ★ 350% overload
- ★ Digital I/O
- ★ 2 Touch Probe inputs
- ★ Preset positions, up to 32 stored positions - Conventional drives only (no *Motion Coordinator* required)
- ★ EtherCAT or Conventional (Pulse & Direction, Analogue, CANopen) control

DX3, the single-axis ac servo drive, is designed to create the most cost-effective optimised entry level solution with excellent performance and practical control functions. The Trio DX3 drive is compatible with Trio MX servo motors and Trio *Motion Coordinators* to provide high-speed, high-precision, high performance machine solutions.

With a power range from 50W to 7.5kW and options for **EtherCAT** or **Conventional** (Pulse & Direction, Analogue, CANopen and stand-alone indexing) control, DX3 will suit a wide variety of machine types.

DX3 is fully integrated into Trio's application development tool, *Motion Perfect*, our software environment for system planning, drive and controller configuration, virtualisation and machine programming.



DX3

200V - 480V Servo Solutions Safety Optimised Servo Drive With STO



Model **# Axes** **Power** **Voltage** **Options** **Version** **Safety**

DX3 - 1 20 A E A - FS02

DX3 comes in power ratings from 50W to 7.5kW. Matched with the MX series motors it offers high-dynamic performance and high-precision with electronic nameplate to simplify configuration for machine solutions.

A5	0.05kW
01	0.1kW
02	0.2kW
04	0.4kW
08	0.75kW
10	1kW
15	1.5kW
20	2kW
30	3kW
50	5kW
75	7.5kW

A	200V ac
D	480V ac

E	EtherCAT
M	Pulse/Dir

A	Revision
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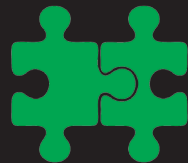
DX3	200V		480V		
	MXL	MXM	DX3	MXL	MXM
50W	✓	✗	1kW	✗	✓
100W	✓	✗	1.5kW	✓	✓
200W	✓	✗	2kW	✓	✓
400W	✓	✗	3kW	✓	✓
750W	✓	✗	5kW	✓	✓
1kW	✓	✓	7.5kW	✗	✓
1.5kW	✓	✓	✗	✗	✗
2kW	✓	✓	✗	✗	✗

The DX3 EtherCAT drives are equipped with dual safe torque off (STO) inputs. These inputs are safety rated SIL3 level according to IEC 61508, IEC 62061 standards.

STO inputs are used in conjunction with your external E-stop circuits to disable the drive's output power and prevent unintentional motor starting.

It can also reduce wiring, safety switch relays, and extra I/O.

STO is designed to make your equipment safer and reduce cost making the STO function an excellent addition.



Integration Efficiency

Rapid application development of controller and drive configuration within *Motion Perfect*.



Space Efficient

Compact single axis servo drive. Zero stacking to save panel space.



Design Efficient

One system to program, simplifying development and any future production changes when required.

DX3

200V Servo Solutions

Specification

Product	Part #	Output Power	H	W	D
200V ac					
DX3-1A5AEA-FS02	D3100	50W	172	40	180
DX3-1A5AMA	D3120				
DX3-101AEA-FS02	D3101	100W	172	40	180
DX3-101AMA	D3121				
DX3-102AEA-FS02	D3102	200W	172	40	180
DX3-102AMA	D3122				
DX3-104AEA-FS02	D3103	400W	172	40	180
DX3-104AMA	D3123				
DX3-108AEA-FS02	D3104	750W	172	55	180
DX3-108AMA	D3124				
DX3-110AEA-FS02	D3105	1kW	172	55	180
DX3-110AMA	D3125				
DX3-115AEA-FS02	D3106	1.5kW	172	70	180
DX3-115AMA	D3126				
DX3-120AEA-FS02	D3107	2kW	172	70	180
DX3-120AMA	D3127				

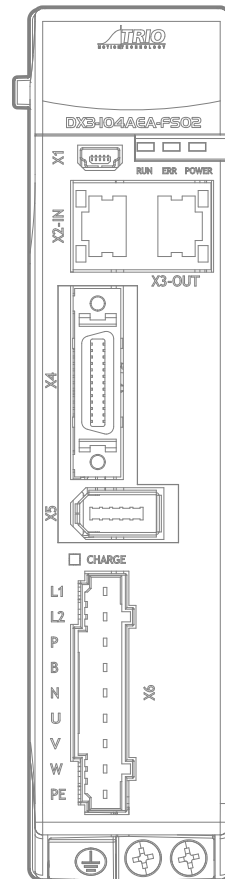
200Vac								
Drive Model: DX3-	1A5A	101A	102A	104A	108A	110A	115A	120A
Continuous output current [Arms]	0.9	1.1	1.5	2.9	5.1	6.9	9.5	12.6
Maximum output current [Arms]	3.3	4	5.8	11.5	19.5	21	31.6	42
Main power supply unit capacity [kVA] (single phase)	0.2	0.3	0.6	1.2	1.9	2.6	4.0 *	-
Main power supply capacity [kVA] (three-phase)	-	-	-	-	1.6	2	3	3.5

*: When operating from a single-phase power supply for the DX3-15AEA (rated power 1.5 kW), please derate to 1.2 kW.

Products with **AEA / DEA** = **EtherCAT**

Products with **AMA / DMA** = **Conventional**

Preliminary specifications may change without notice

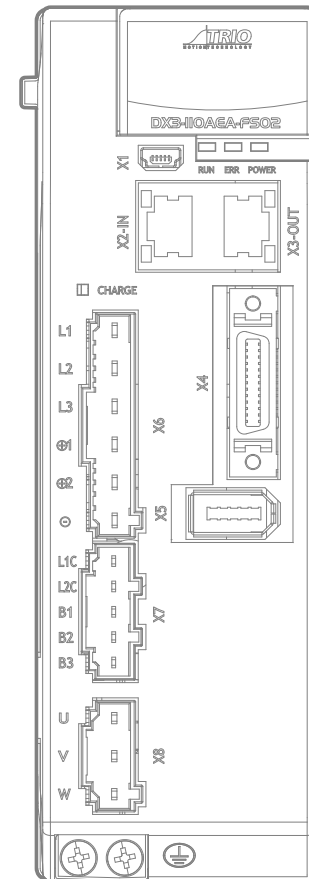


DX3-1A5AEA/AMA

DX3-101AEA/AMA

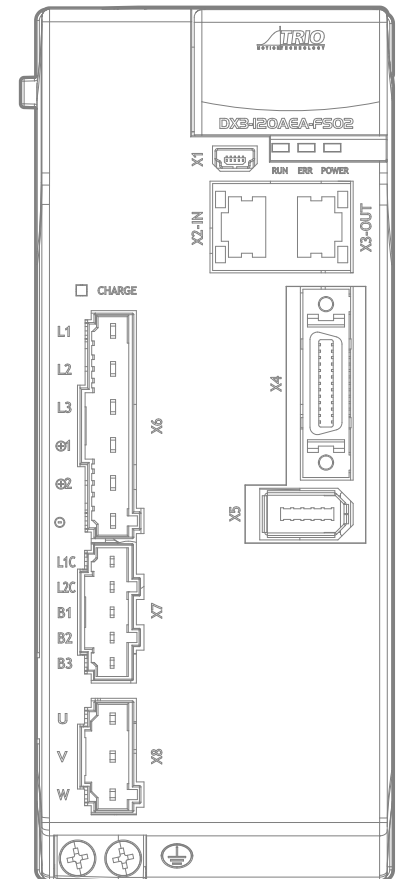
DX3-102AEA/AMA

DX3-104AEA/AMA



DX3-108AEA/AMA

DX3-110AEA/AMA



DX3-115AEA/AMA

DX3-120AEA/AMA

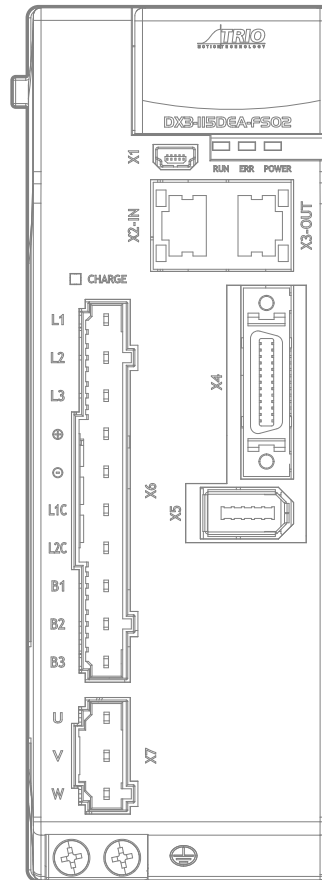
DX3

480V Servo Solutions

Specification

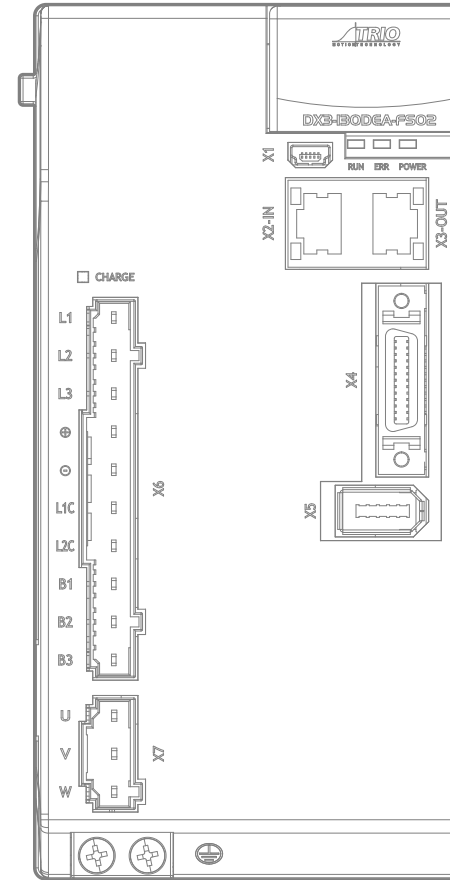
Product	Part #	Output Power	H	W	D
480V ac					
DX3-110DEA-FS02	D3110	1kW	172	60	180
DX3-110DMA	D3130				
DX3-115DEA-FS02	D3111	1.5kW	172	60	180
DX3-115DMA	D3131				
DX3-120DEA-FS02	D3112	2kW	172	85	180
DX3-120DMA	D3132				
DX3-130DEA-FS02	D3113	3kW	172	85	180
DX3-130DMA	D3133				
DX3-150DEA-FS02	D3114	5kW	260	90	230
DX3-150DMA	D3134				
DX3-175DEA-FS02	D3115	7.5kW	260	90	230
DX3-175DMA	D3135				

480V ac							
Drive model: DX3-	110D	115D	120D	130D	150D	175D	
Continuous output current [Arms]	3.6	5	7.1	12	17	27.3	
Maximum output current [Arms]	10.9	16.3	24.7	37.8	53	70.7	
Main power supply capacity [kVA] (three-phase)	1.8	2.8	3.5	5	8.2	12	



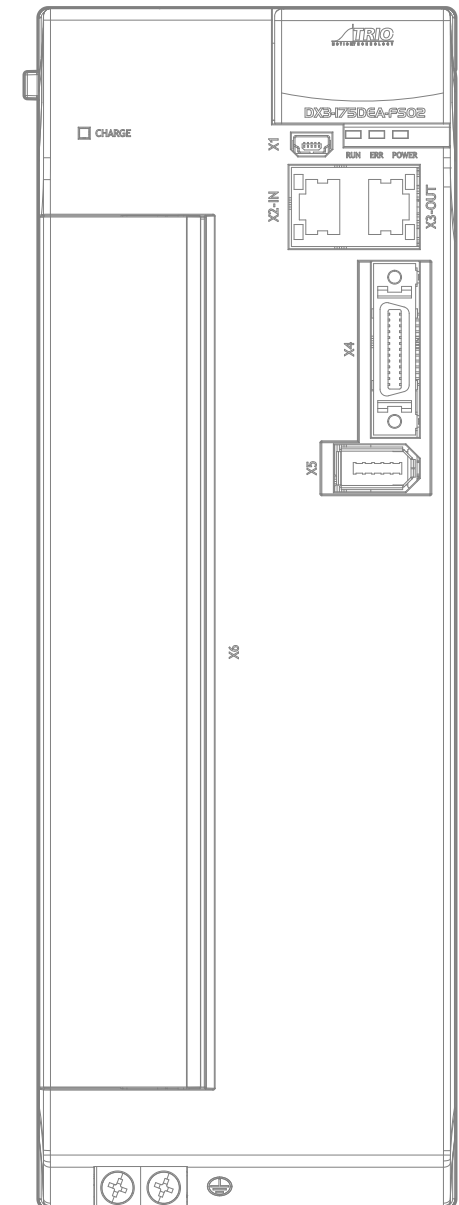
DX3-110DEA/DMA

DX3-115DEA/DMA



DX3-120DEA/DMA

DX3-130DEA/DMA



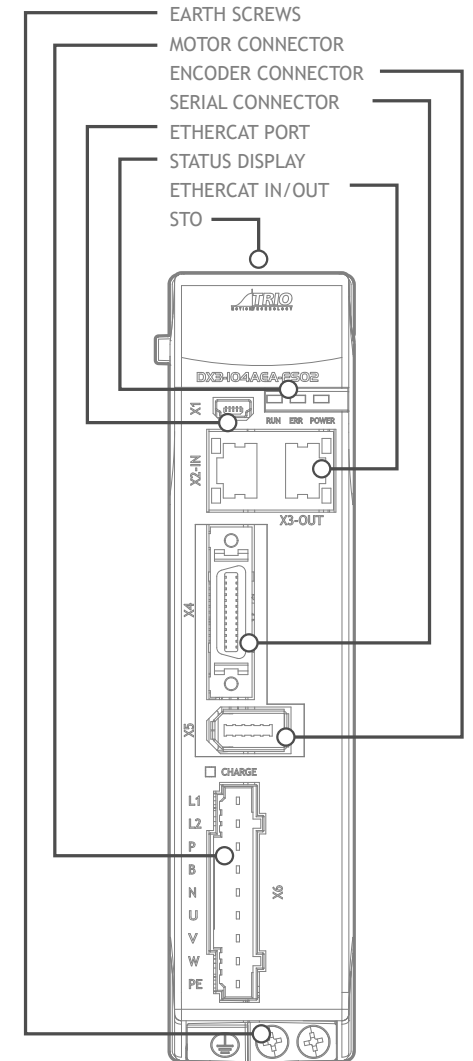
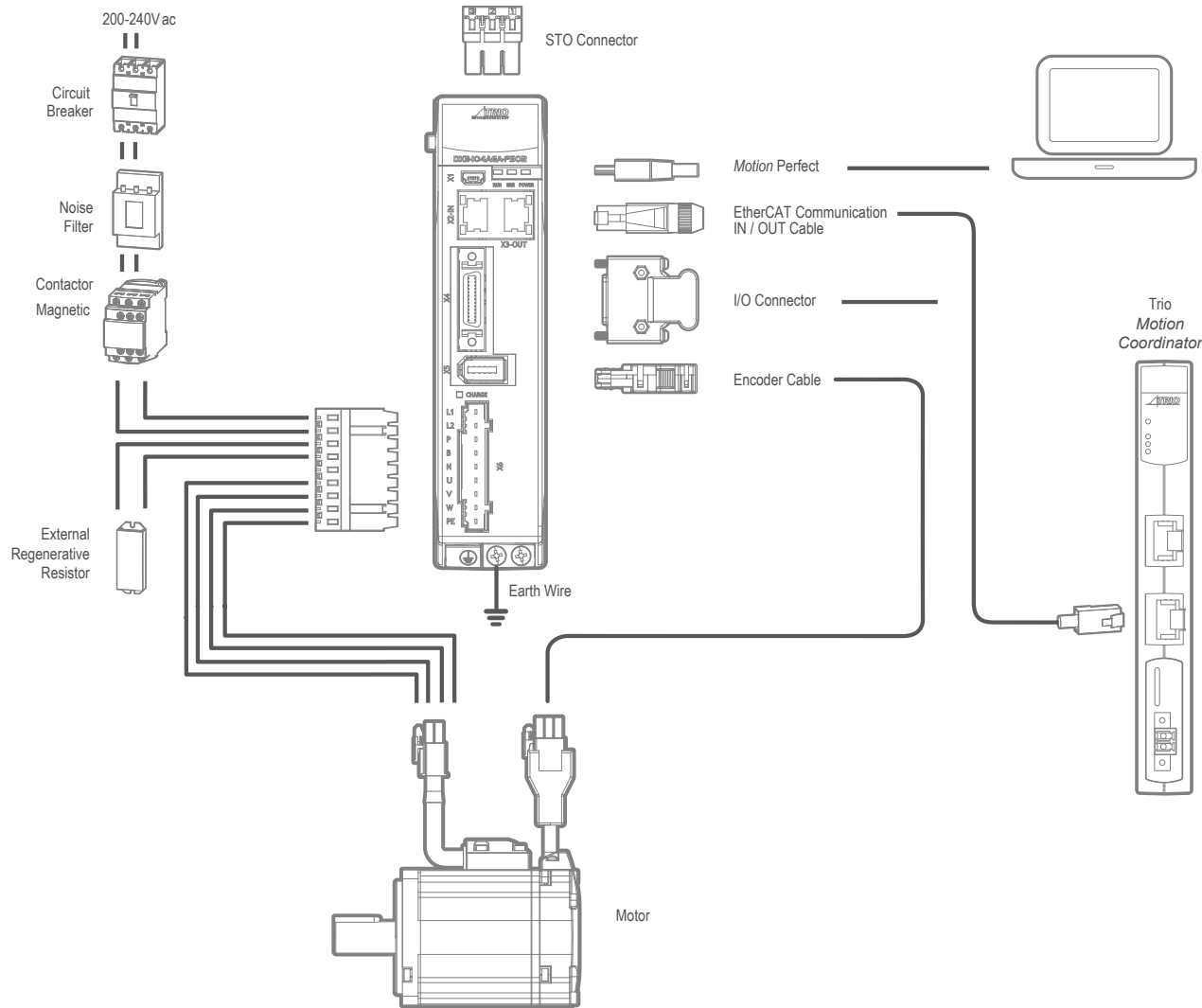
DX3-150DEA/DMA

DX3-175DEA/DMA

Products with **AEA / DEA** = **EtherCAT**
 Products with **AMA / DMA** = **Conventional**

DX3

Wiring Solution Example EtherCAT Model Configuration (50W - 400W)

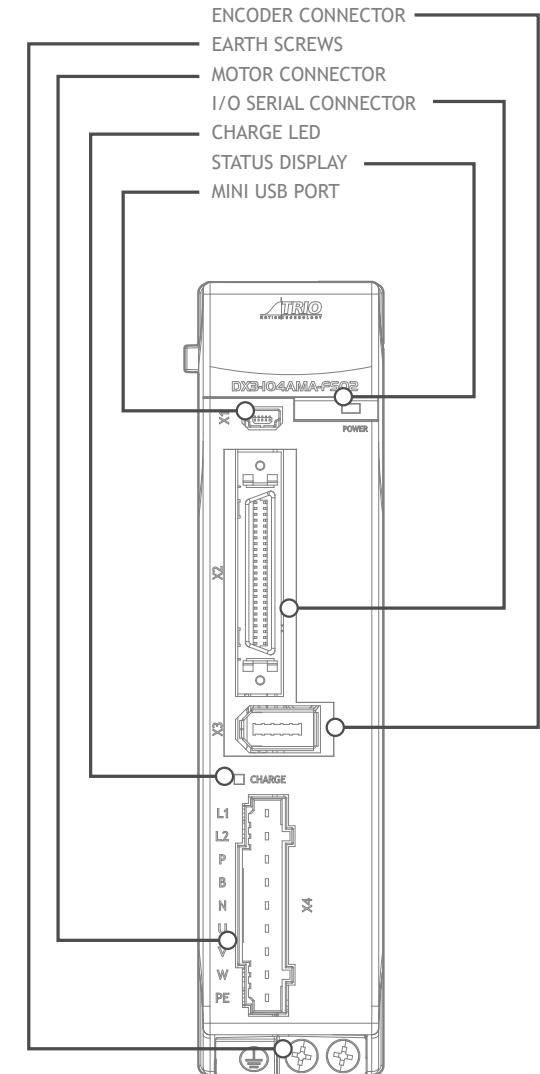
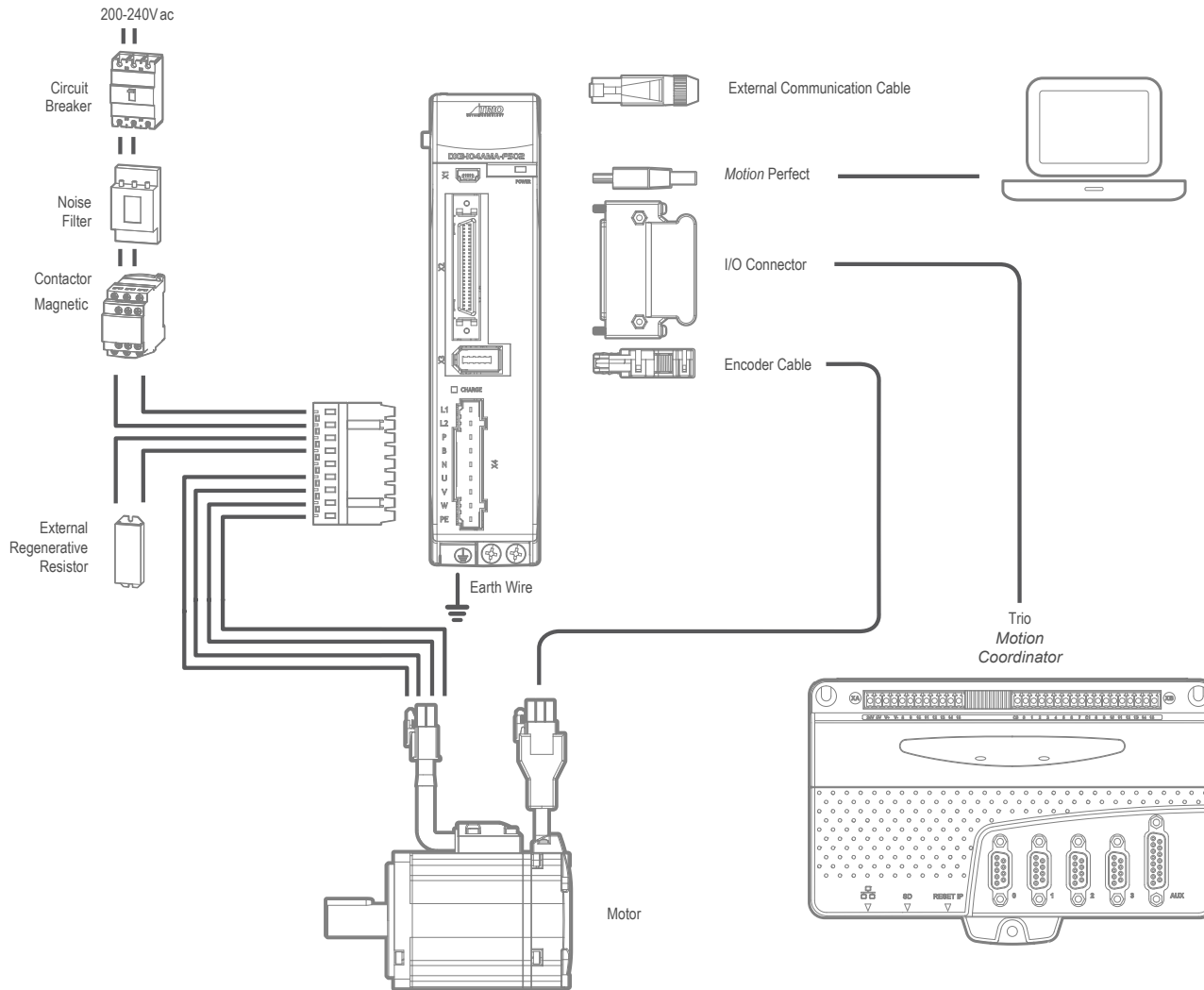


Example illustration showing **AEA / DEA = EtherCAT**

DX3

Wiring Solution Example

Conventional Model Configuration (50W - 400W)



Products ending with **AMA / DMA** = **Conventional**

DX3

200V - 480V Servo Solutions


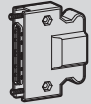
All Models Specification

Universal specifications		Description	
Input power	200VAC	Single-phase AC 200V ~ 240V, -15% ~ +10%, 50Hz / 60Hz Three-phase AC 200V ~ 240V, -15% ~ +10%, 50Hz / 60Hz (rated power ≥0.75kW)	
	480VAC	Three Phase AC 380V ~ 480V, -15% ~ +10%, 50Hz / 60Hz	
Control the power supply	200VAC	Single phase AC 200V ~ 240V, -15% ~ +10%, 50Hz / 60Hz	
	480VAC	Three phase AC 380V ~ 480V, -15% ~ +10%, 50Hz / 60Hz	
Control mode	SVPWM control		
Feedback	Serial communication encoder with MX motors		
Terms of use	Working environment	Temperature	When using a single device: -5°C ~ 55°C When multi-device is installed closely: -5 °C ~ 40 °C
		Humidity	5% to 95% RH (no condensation)
	Storage environment	Temperature	-20°C ~ 85°C
		Humidity	5% to 95% RH (no condensation)
	Protection class	IP20	
	Altitude	1000m or less	
	Vibration resistant	4.9m/s ²	
	Impact resistant	19.6m/s ²	
Power system	TN system		
Installation structure	Base mounting		
Performance	Speed control range	1:5000	
	Speed volatility	The rated speed ± less than 0.01% (when the load fluctuates: 0% to 100%) 0% of the rated speed (voltage fluctuations: at ± 10%) The rated speed is ± below 0.1% (temperature fluctuations: 25°C±25°C)	
	Soft-start settings	0 ~10s (acceleration and deceleration can be set separately)	
I/O	Encoder Output	A, B, Z differential	
	Input signal	Operating voltage range: 24 VDC±20% Number of input channels: 5 on AEA/DEA, 10 on AMA/DMA Touch probe: 2 input channels configurable as touch probe	
	Output signal	Operating voltage range: 5 VDC to 30 VDC Number of output channels: 3 on AEA/DEA, 5 on AMA/DMA	
USB port	Communication standards	Conforms to USB 2.0 standard (12 Mbps), OTG	
Commissioning Ports	USB EtherCAT (CoE) (only available on AEA/DEA)		
Commissioning Software	Motion Perfect		
Display	5-digit		
Operator Panel	4 buttons		
Indicator Lamps	CHARGE, POWER		
Regenerative braking	Products with rated power of 50W to 400W do not have built-in braking resistors Products with a power rating of 750W to 7.5kW have built-in braking resistors		
Protection features	Overcurrent, overvoltage, undervoltage, overload, regeneration anomaly, overspeed, etc		
Accessibility	Alarm recording, Jog operation, load inertia identification, mechanical analyzer, automatic tuning tools, etc		

Preliminary specifications may change without notice

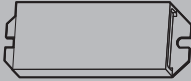
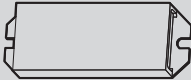
Drive Cables Connectors

All Models Component Selection

Description	Function
I/O Plug	26-way (Compatible with EtherCAT Models) X0800 
I/O Plug	50-way (Compatible with Conventional Models) X0813 

Accessories

All Models

Part #	Description	Rating
X0806	Foot Mounted Filter	50W - 100W 
X0807	Foot Mounted Filter	750W - 1.5kW 

DX3

200V - 480V Servo Solutions EtherCAT Model (AEA, DEA) Specification

Conventional Model (AMA, DMA) Specification

EtherCAT Specifications	Description
Applicable communication standards	IEC 61158 Type12, IEC 61800-7 CiA402 Drive Profile
Physical layer	100BASE-TX (IEEE802.3)
Bus connection	X2-IN (RJ45): EtherCAT Signal IN
	X3-OUT (RJ45): EtherCAT Signal OUT
Cable	Category 5 twisted pair (4 pairs of shielded twisted pairs).
Sync Manager	SM0: Output mailbox, SM1: Enter mailbox SM2: Output process data, SM3: Input process data
FMMU	FMMU0: Maps to the Process Data (RxPDO) output area
	FMMU1: Maps to the Process Data (TxPDO) send zone
	FMMU2: Maps to mailbox status
EtherCAT Commands (Data Link Layer)	APRD, FPRD, BRD, LRD, APWR, FPWR, BWR, LWR, ARMW, FRMW
PDO data	Dynamic PDO mapping
MailBox(CoE)	Emergencies, SDO requests, responses, SDO information (TxPDO/RxPDO and remote TxPDO/RxPDO are not supported)
MailBox(FoE)	Support FoE firmware upgrade
Distributed Clock (DC)	Free-run mode and DC mode (switchable), DC synchronization period: 125µs to 8ms
Slave Information Interface	2048 bytes (read-only)
CiA402 Drive Profile	Homing mode, Profile position mode, Profile velocity mode, Profile torque mode, Interpolated position mode, Cyclic synchronous position mode, Cyclic synchronous velocity mode, Cyclic synchronous torque mode, Touch probe function, Torque limit function
FoE (File Over EtherCAT)	Download new firmware via FoE
Safe Torque Off	According to IEC 61800-5-2, Cat.4, PLe according to ISO 13849-1, SIL3 according to IEC 61508, IEC 62061.

Step/Pulse Model Specifications		Description	
Torque Control	Analogue reference	Reference Voltage	±10VDC at rated torque Max. input voltage: ±12V
		Input Impedance	10MΩ or above
		Circuit Time Constant	10µs
	Torque Selection	Presets	4 torque selections
Speed Control	Analogue reference	Reference Voltage	±10VDC at rated speed Max. input voltage: ±12V
		Input Impedance	10MΩ or above
		Circuit Time Constant	10µs
	Speed selection	Presets	32 speed selections
Position Control	Pulse reference	Type	Pulse + Direction CCW + CW Pulse A/B Quadrature
		Voltage	5V
		Max Frequency	500kHz (differential) 200kHz (single ended)
	Position Selection	Presets	32 position selections
CANopen	CiA402 Drive Profile	Homing mode, Profile position mode, Profile velocity mode, Profile torque mode, Interpolated position mode	
Encoder output	Type	A/B/Z Quadrature	
	Voltage	5V	
	Max Frequency	500kHz (differential)	

DX3

EtherCAT

DX Drives Matched to Motors

EtherCAT Drive and MXL Compatibility			
Drive Part #	Drive Model	Motor Part #	Motor Model
D3100	DX3-1A5AEA-FS02	M0758	MXL-A5A0430LA222
D3100	DX3-1A5AEA-FS02	M0869	MXL-A5A0430LA248
D3101	DX3-101AEA-FS02	M0756	MXL-01A0430LA222
D3101	DX3-101AEA-FS02	M0871	MXL-01A0430LA248
D3101	DX3-101AEA-FS02	M0835	MXL-01A0430TA222
D3101	DX3-101AEA-FS02	M0872	MXL-01A0430TA248
D3102	DX3-102AEA-FS02	M0654	MXL-02A0630LA222
D3102	DX3-102AEA-FS02	M0875	MXL-02A0630LA248
D3102	DX3-102AEA-FS02	M0837	MXL-02A0630TA222
D3102	DX3-102AEA-FS02	M0876	MXL-02A0630TA248
D3103	DX3-104AEA-FS02	M0646	MXL-04A0630LA222
D3103	DX3-104AEA-FS02	M0878	MXL-04A0630LA248
D3103	DX3-104AEA-FS02	M0839	MXL-04A0630TA222
D3103	DX3-104AEA-FS02	M0879	MXL-04A0630TA248
D3104	DX3-108AEA-FS02	M0638	MXL-08A0830LA222
D3104	DX3-108AEA-FS02	M0881	MXL-08A0830LA248
D3104	DX3-108AEA-FS02	M0841	MXL-08A0830TA222
D3104	DX3-108AEA-FS02	M0882	MXL-08A0830TA248
D3105	DX3-110AEA-FS02	M0630	MXL-10A0830LA222
D3105	DX3-110AEA-FS02	M0884	MXL-10A0830LA248
D3105	DX3-110AEA-FS02	M0843	MXL-10A0830TA222
D3105	DX3-110AEA-FS02	M0885	MXL-10A0830TA248
D3106	DX3-115AEA-FS02	M0761	MXL-15A1030LB224
D3106	DX3-115AEA-FS02	M0762	MXL-15A1030LB244
D3106	DX3-115AEA-FS02	M0773	MXL-15A1030TB224
D3106	DX3-115AEA-FS02	M0774	MXL-15A1030TB244
D3107	DX3-120AEA-FS02	M0763	MXL-20A1030LB224
D3107	DX3-120AEA-FS02	M0764	MXL-20A1030LB244
D3107	DX3-120AEA-FS02	M0779	MXL-20A1030TB224
D3107	DX3-120AEA-FS02	M0780	MXL-20A1030TB244
D3111	DX3-115DEA-FS02	M0775	MXL-15D1030LB224
D3111	DX3-115DEA-FS02	M0776	MXL-15D1030LB244
D3111	DX3-115DEA-FS02	M0777	MXL-15D1030TB224
D3111	DX3-115DEA-FS02	M0778	MXL-15D1030TB244

EtherCAT Drive and MXL Compatibility			
Drive Part #	Drive Model	Motor Part #	Motor Model
D3112	DX3-120DEA-FS02	M0781	MXL-20D1030LB224
D3112	DX3-120DEA-FS02	M0772	MXL-20D1030LB244
D3112	DX3-120DEA-FS02	M0782	MXL-20D1030TB224
D3112	DX3-120DEA-FS02	M0783	MXL-20D1030TB244
D3113	DX3-130DEA-FS02	M0784	MXL-30D1330LA224
D3113	DX3-130DEA-FS02	M0785	MXL-30D1330LA244
D3114	DX3-150DEA-FS02	M0786	MXL-40D1330LA224
D3114	DX3-150DEA-FS02	M0787	MXL-40D1330LA244
D3114	DX3-150DEA-FS02	M0788	MXL-50D1330LA224
D3114	DX3-150DEA-FS02	M0789	MXL-50D1330LA244
D3113	DX3-130DEA-FS02	M0847	MXL-30D1330TA224
D3113	DX3-130DEA-FS02	M0848	MXL-30D1330TA244
D3114	DX3-150DEA-FS02	M0849	MXL-40D1330TA224
D3114	DX3-150DEA-FS02	M0850	MXL-40D1330TA244
D3114	DX3-150DEA-FS02	M0851	MXL-50D1330TA224
D3114	DX3-150DEA-FS02	M0852	MXL-50D1330TA244

EtherCAT Drive and MXM Compatibility			
Drive Part #	Drive Model	Motor Part #	Motor Model
D3105	DX3-110AEA-FS02	M0767	MXM-09A1315LA224
D3105	DX3-110AEA-FS02	M0768	MXM-09A1315LA244
D3105	DX3-110AEA-FS02	M0790	MXM-09A1315TA224
D3105	DX3-110AEA-FS02	M0791	MXM-09A1315TA244
D3106	DX3-115AEA-FS02	M0769	MXM-13A1315LA224
D3106	DX3-115AEA-FS02	M0770	MXM-13A1315LA244
D3106	DX3-115AEA-FS02	M0796	MXM-13A1315TA224
D3106	DX3-115AEA-FS02	M0797	MXM-13A1315TA244
D3110	DX3-110DEA-FS02	M0792	MXM-09D1315LA224
D3110	DX3-110DEA-FS02	M0793	MXM-09D1315LA244
D3110	DX3-110DEA-FS02	M0794	MXM-09D1315TA224
D3110	DX3-110DEA-FS02	M0795	MXM-09D1315TA244
D3111	DX3-115DEA-FS02	M0798	MXM-13D1315LA224
D3111	DX3-115DEA-FS02	M0799	MXM-13D1315LA244
D3111	DX3-115DEA-FS02	M0803	MXM-13D1315TA224
D3111	DX3-115DEA-FS02	M0804	MXM-13D1315TA244
D3112	DX3-120DEA-FS02	M0805	MXM-18D1315LA224
D3112	DX3-120DEA-FS02	M0806	MXM-18D1315LA244
D3112	DX3-120DEA-FS02	M0807	MXM-18D1315TA224
D3112	DX3-120DEA-FS02	M0808	MXM-18D1315TA244
D3113	DX3-130DEA-FS02	M0809	MXM-29D1815LA224
D3113	DX3-130DEA-FS02	M0810	MXM-29D1815LA244
D3113	DX3-130DEA-FS02	M0857	MXM-29D1815TA224
D3113	DX3-130DEA-FS02	M0858	MXM-29D1815TA244
D3114	DX3-150DEA-FS02	M0811	MXM-44D1815LA224
D3114	DX3-150DEA-FS02	M0812	MXM-44D1815LA244
D3114	DX3-150DEA-FS02	M0859	MXM-44D1815TA224
D3114	DX3-150DEA-FS02	M0860	MXM-44D1815TA244
D3115	DX3-175DEA-FS02	M0813	MXM-55D1815LA224
D3115	DX3-175DEA-FS02	M0814	MXM-55D1815LA244
D3115	DX3-175DEA-FS02	M0861	MXM-55D1815TA224
D3115	DX3-175DEA-FS02	M0862	MXM-55D1815TA244
D3115	DX3-175DEA-FS02	M0815	MXM-75D1815LA224
D3115	DX3-175DEA-FS02	M0816	MXM-75D1815LA244
D3115	DX3-175DEA-FS02	M0863	MXM-75D1815TA224
D3115	DX3-175DEA-FS02	M0864	MXM-75D1815TA244

DX3

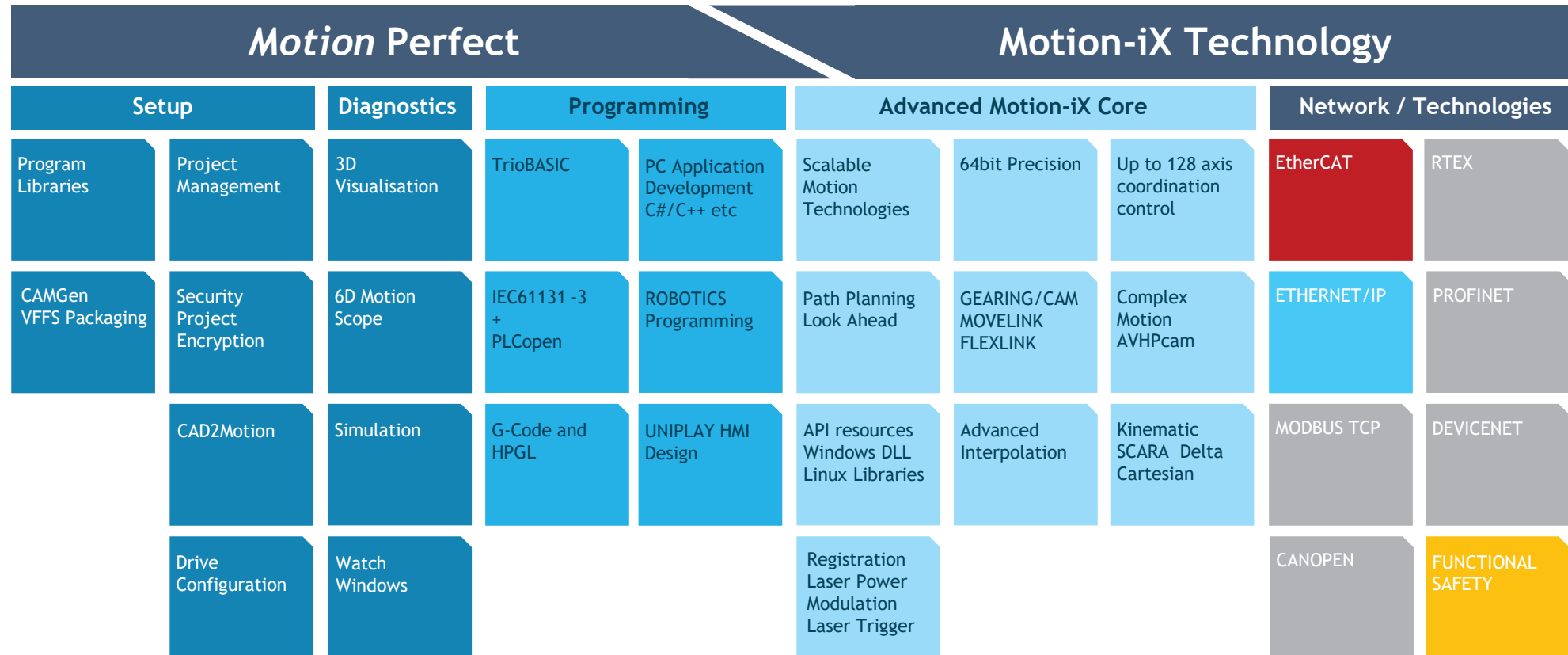
Conventional DX Drives Matched to Motors

Conventional Drive and MXL Compatibility			
Drive Part #	Drive Model	Motor Part #	Motor Model
D3120	DX3-1A5AMA	M0758	MXL-A5A0430LA222
D3120	DX3-1A5AMA	M0869	MXL-A5A0430LA248
D3121	DX3-101AMA	M0756	MXL-01A0430LA222
D3121	DX3-101AMA	M0871	MXL-01A0430LA248
D3121	DX3-101AMA	M0835	MXL-01A0430TA222
D3021	DX3-101AMA	M0872	MXL-01A0430TA248
D3122	DX3-102AMA	M0654	MXL-02A0630LA222
D3122	DX3-102AMA	M0875	MXL-02A0630LA248
D3122	DX3-102AMA	M0837	MXL-02A0630TA222
D3122	DX3-102AMA	M0876	MXL-02A0630TA248
D3123	DX3-104AMA	M0646	MXL-04A0630LA222
D3123	DX3-104AMA	M0878	MXL-04A0630LA248
D3123	DX3-104AMA	M0839	MXL-04A0630TA222
D3123	DX3-104AMA	M0879	MXL-04A0630TA248
D3024	DX3-108AMA	M0638	MXL-08A0830LA222
D3124	DX3-108AMA	M0881	MXL-08A0830LA248
D3124	DX3-108AMA	M0841	MXL-08A0830TA222
D3124	DX3-108AMA	M0882	MXL-08A0830TA248
D3125	DX3-110AMA	M0630	MXL-10A0830LA222
D3125	DX3-110AMA	M0884	MXL-10A0830LA248
D3125	DX3-110AMA	M0843	MXL-10A0830TA222
D3125	DX3-110AMA	M0885	MXL-10A0830TA248
D3126	DX3-115AMA	M0761	MXL-15A1030LB224
D3126	DX3-115AMA	M0762	MXL-15A1030LB244
D3126	DX3-115AMA	M0773	MXL-15A1030TB224
D3126	DX3-115AMA	M0774	MXL-15A1030TB244
D3127	DX3-120AMA	M0763	MXL-20A1030LB224
D3127	DX3-120AMA	M0764	MXL-20A1030LB244
D3127	DX3-120AMA	M0779	MXL-20A1030TB224
D3127	DX3-120AMA	M0780	MXL-20A1030TB244
D3131	DX3-115DMA	M0775	MXL-15D1030LB224
D3131	DX3-115DMA	M0776	MXL-15D1030LB244
D3131	DX3-115DMA	M0777	MXL-15D1030TB224
D3131	DX3-115DMA	M0778	MXL-15D1030TB244

Conventional Drive and MXL Compatibility			
Drive Part #	Drive Model	Motor Part #	Motor Model
D3132	DX3-120DMA	M0781	MXL-20D1030LB224
D3132	DX3-120DMA	M0772	MXL-20D1030LB244
D3132	DX3-120DMA	M0782	MXL-20D1030TB224
D3132	DX3-120DMA	M0783	MXL-20D1030TB244
D3133	DX3-130DMA	M0784	MXL-30D1330LA224
D3133	DX3-130DMA	M0785	MXL-30D1330LA244
D3134	DX3-150DMA	M0786	MXL-40D1330LA224
D3134	DX3-150DMA	M0787	MXL-40D1330LA244
D3134	DX3-150DMA	M0788	MXL-50D1330LA224
D3134	DX3-150DMA	M0789	MXL-50D1330LA244
D3133	DX3-130DMA	M0847	MXL-30D1330TA224
D3133	DX3-130DMA	M0848	MXL-30D1330TA244
D3134	DX3-150DMA	M0849	MXL-40D1330TA224
D3134	DX3-150DMA	M0850	MXL-40D1330TA244
D3134	DX3-150DMA	M0851	MXL-50D1330TA224
D3134	DX3-150DMA	M0852	MXL-50D1330TA244

Conventional Drive and MXM Compatibility			
Drive Part #	Drive Model	Motor Part #	Motor Model
D3125	DX3-111AMA	M1767	MXM-19A1315LA224
D3125	DX3-111AMA	M1768	MXM-19A1315LA244
D3125	DX3-111AMA	M1791	MXM-19A1315TA224
D3125	DX3-111AMA	M1791	MXM-19A1315TA244
D3126	DX3-115AMA	M1769	MXM-13A1315LA224
D3126	DX3-115AMA	M1771	MXM-13A1315LA244
D3126	DX3-115AMA	M1796	MXM-13A1315TA224
D3126	DX3-115AMA	M1797	MXM-13A1315TA244
D3131	DX3-111DMA	M1792	MXM-19D1315LA224
D3131	DX3-111DMA	M1793	MXM-19D1315LA244
D3131	DX3-111DMA	M1794	MXM-19D1315TA224
D3131	DX3-111DMA	M1795	MXM-19D1315TA244
D3131	DX3-115DMA	M1798	MXM-13D1315LA224
D3131	DX3-115DMA	M1799	MXM-13D1315LA244
D3131	DX3-115DMA	M1813	MXM-13D1315TA224
D3131	DX3-115DMA	M1814	MXM-13D1315TA244
D3132	DX3-121DMA	M1815	MXM-18D1315LA224
D3132	DX3-121DMA	M1816	MXM-18D1315LA244
D3132	DX3-121DMA	M1817	MXM-18D1315TA224
D3132	DX3-121DMA	M1818	MXM-18D1315TA244
D3133	DX3-131DMA	M1819	MXM-29D1815LA224
D3133	DX3-131DMA	M1811	MXM-29D1815LA244
D3133	DX3-131DMA	M1857	MXM-29D1815TA224
D3133	DX3-131DMA	M1858	MXM-29D1815TA244
D3134	DX3-151DMA	M1811	MXM-44D1815LA224
D3134	DX3-151DMA	M1812	MXM-44D1815LA244
D3134	DX3-151DMA	M1859	MXM-44D1815TA224
D3134	DX3-151DMA	M1861	MXM-44D1815TA244
D3135	DX3-175DMA	M1813	MXM-55D1815LA224
D3135	DX3-175DMA	M1814	MXM-55D1815LA244
D3135	DX3-175DMA	M1861	MXM-55D1815TA224
D3135	DX3-175DMA	M1862	MXM-55D1815TA244
D3135	DX3-175DMA	M1815	MXM-75D1815LA224
D3135	DX3-175DMA	M1816	MXM-75D1815LA244
D3135	DX3-175DMA	M1863	MXM-75D1815TA224
D3135	DX3-175DMA	M1864	MXM-75D1815TA244

Motion Optimal Engineering Technologies



Combining an advanced motion core with Trio's ease-of-use, Motion-ix offers performance and dependability of packaged solutions, from "The Motion Specialist", where motion is the core and not just a bolt-on capability.

Motion-ix – a unified software engineering framework for machine development, that places the focus on optimising motion and complex kinematics, including robotics such as SCARA, to deliver truly optimal machine control performance.

Motion-ix includes development in IEC61131 and PLCopen, and boasts inverse kinematics capabilities to truly coordinate all machine axes as one, including

robots to maintain tight synchronisation or robots and machine as one. Virtualization allows simulation of the mechanics and motion to significantly reduce development and testing, delivering optimal control every time, by minimising machine cycle times.

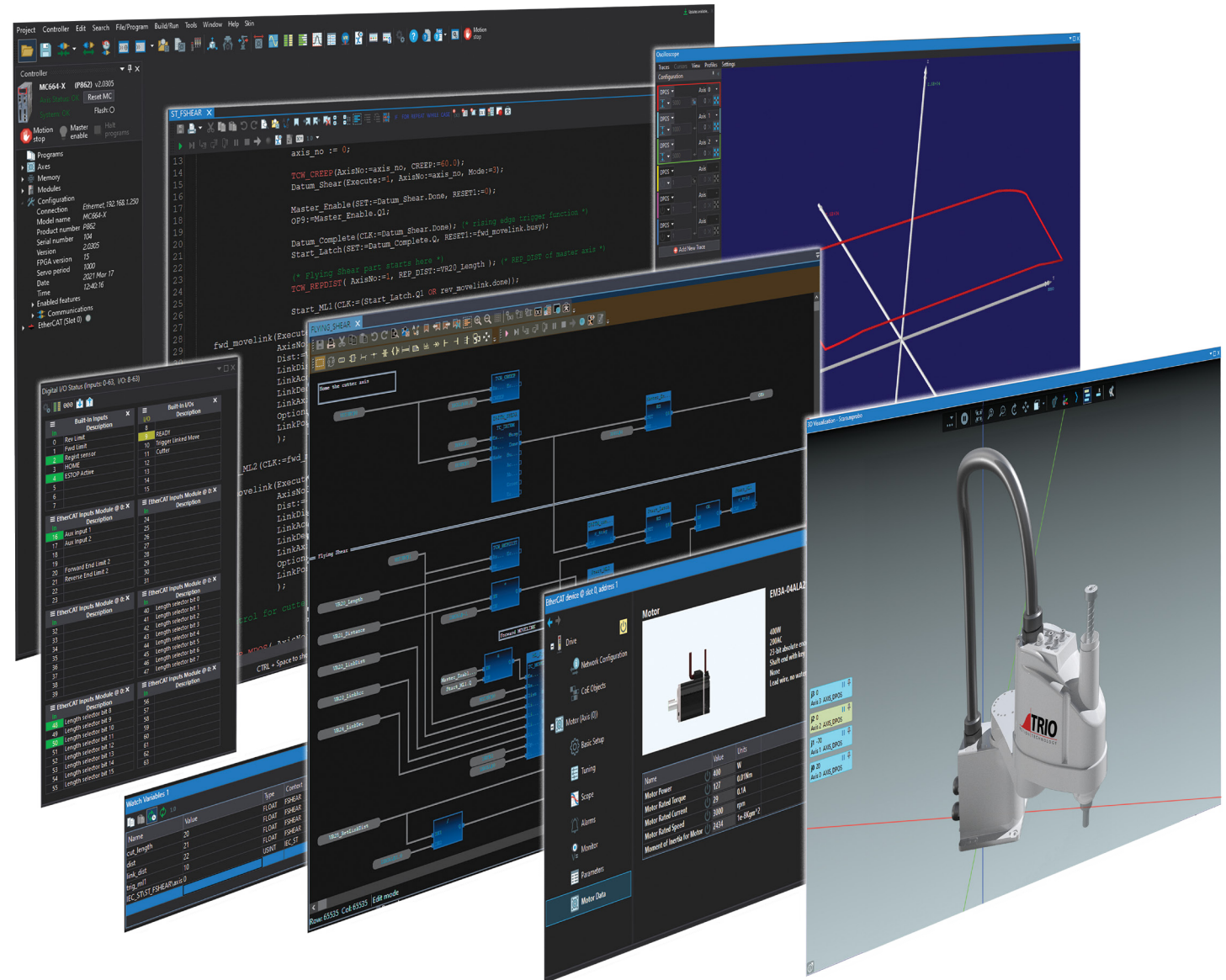
Motion Perfect

Design, Develop, Test, Deploy and Secure

Built on Trio's **Motion-iX** core technology, *Motion Perfect* provides the user with a re-designed easy to understand interface for rapid application development, controller and drive configuration and monitoring of functions.

The commissioning of DX Servo Drives is made simple with a series of Device Configuration Screens allowing access to status information and diagnostics at a glance. All motor axes can be detected, setup, monitored and controlled in real-time from the easy to use dialogue windows.

Motion Perfect includes access to IEC 61131 and PLCopen and the robotics solution; TrioRPS. Advanced visualisation including a 3D oscilloscope and IP protection of your projects are also included within *Motion Perfect*.



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Trio Motion Technology specialises in advanced motion control as a core, providing a range of *Motion Coordinators*, drives and motors, expansion interfaces, I/O modules and HMI's built on *Motion-ix* technologies and designed to enable the control of industrial machines with the minimum of external components.

In support of the Trio concept, we aim to offer the best technical support by telephone, email, our comprehensive website and training courses held throughout the year. Please look at our web site for details.

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