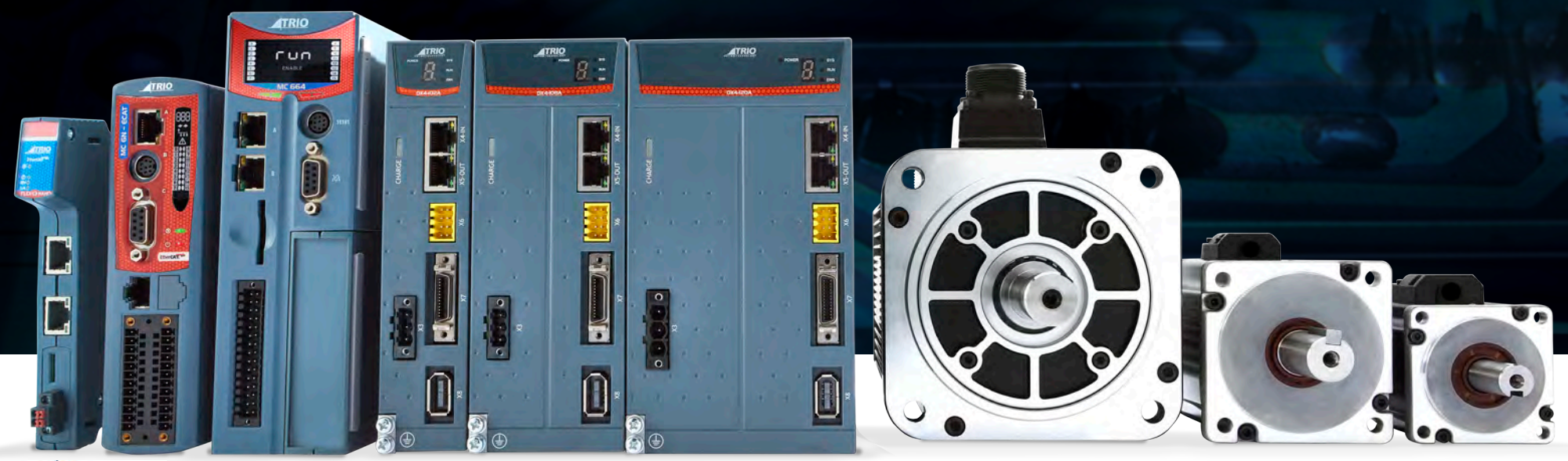


NEW



TRIO MOTION TECHNOLOGY DX4 SERVO PACKAGES



www.motiontech.com.au

THE MOTION SPECIALIST

DX4

200V Servo Solutions

The DX4 Servo drive and motor system...
Everything you need, nothing more!

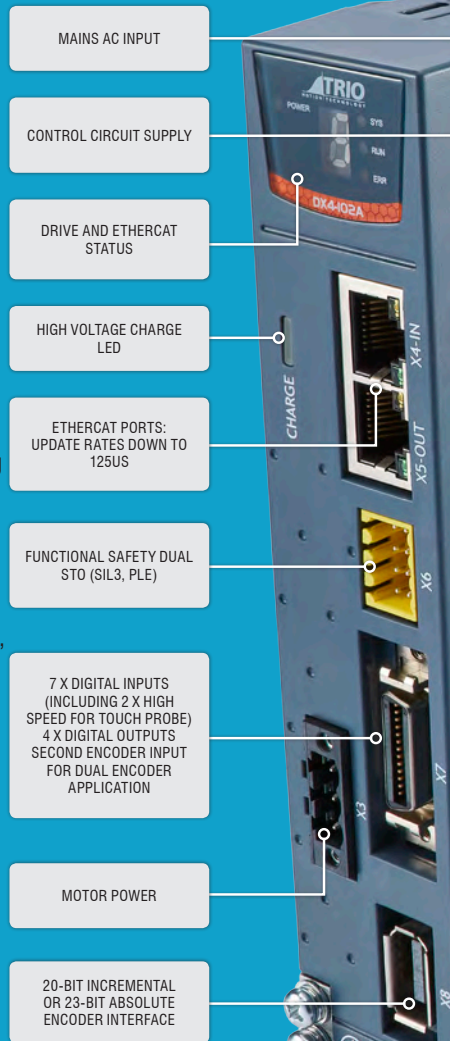
Introducing DX4, our all new servo drive and motor packages that provide performance and dependability. Optimised in every detail to do more with less and with features to deliver scalable servo-based solutions in demanding motion centric machine automation.

DX4 servo drives and matched motor packages provide performance and dependability machinery designers expect, and additionally are optimized in every detail to 'do more with less'. This philosophy is achieved by tightly integrated drive control and axis functions within the motion controller and seamless integration within the software tool *Motion Perfect*. By providing optimal functionality at drive level and system level expansion at controller level, DX4 provides an everything needed without added complexity. System level scalable servo-based solutions can be solved thanks to deterministic real-time performance of EtherCAT, adding hardware at network level as needed and combined with Trio motion expertise in demanding motion-centric machine automation.

Designed to work seamlessly with Trio's EtherCAT controllers, DX4 is fully integrated into Trio's application development tool, *Motion Perfect*, our single software environment for system planning, configuration virtualisation and machine programming.

Your system needs can easily be scaled within our Trio solution architecture, through our range of *Motion Coordinators* and high performance of EtherCAT distributed Flexslice I-O systems, adding function where it is needed, as it is needed, simplifying the drive system for optimal motion centric machine applications.

With a focus on ease of use, and electronic name plate function, the DX4 solution minimizes setup time allowing you to focus on your application.



- Drive and *Motion Coordinator* fully integrated into *Motion Perfect*
- Matched with MX motor range of low and medium inertia motors
- Internal drive protection functions
- Comprehensive tuning technology including: Auto-tuning function, adaptive vibration suppression, friction compensation
- Field upgradable firmware
- Electronic nameplate motor identification for simplified drive set-up



DX4 200V Servo Solutions

Frame sizes to suit all requirements

50W - 400W

DX4-1A5A
DX4-101A
DX4-102A
DX4-104A

750W - 1.5kW

DX4-108A
DX4-110A
DX4-115A

2kW - 3kW

DX4-120A
DX4-130A

DX4 comes in power ratings from 50W to 3kW matched with the MX series motors it offers a high-dynamic performance, and high-precision with absolute 23-bit encoder and electronic nameplate to simplify configuration for machine solutions.



TRIO PRODUCTS

200V System Solutions

Motion Optimised Automation Package



EtherCAT Motion Coordinator

The *Motion Coordinator* system allows you to control up to 128 servo or stepper motors with Digital I/O and additional equipment such as HMI's all controlled from a single master. Systems may be used with a stand alone program or alternatively commands can be sent from an external computer.

EtherCAT I/O Expansion

The EtherCAT Flexslice System is designed to let you do more!

It offers fast flexible compact I/O expansion for the MC4 and newer range of *Motion Coordinators* and can be used with Trio or 3rd Party Masters.

DX4 200V Servo Drive Range

Drive and *Motion Coordinator* fully integrated into *Motion Perfect 5*.

Compact size.

Zero stacking gap installation.

200V ac from 50W up to 3kW.

350% overload capability.

Matched with MX motor range of low and medium inertia motors.

MXL Low and MXM Medium Inertia Motors

Low and medium inertia options to match the load.

23-bit absolute multi-turn (battery option required) offers tighter control and eliminates homing cycles.

Pre-made cables with in-line battery option (absolute encoder).

IP65 rated connectors.

Motion Perfect 200V Servo Solutions

Design, Develop, Test, Deploy and Secure

Motion Perfect v5 enhances the programming experience for the *Motion Coordinator* and *DX4*.

This new release has been improved to make setup, diagnostics and commissioning even more straight-forward. Built on Trio's **Motion-ix** core technology, it 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 your drives is made simple with a series of Device Configuration Screens allowing access to status information and diagnostics at a glance. Network configuration is just as easy and includes a selection of pre-defined EtherCAT profiles or custom EtherCAT profiles can be designed using a checkbox interface.

The oscilloscope tool allows simulation and visualisation of up to 8 drive parameters.

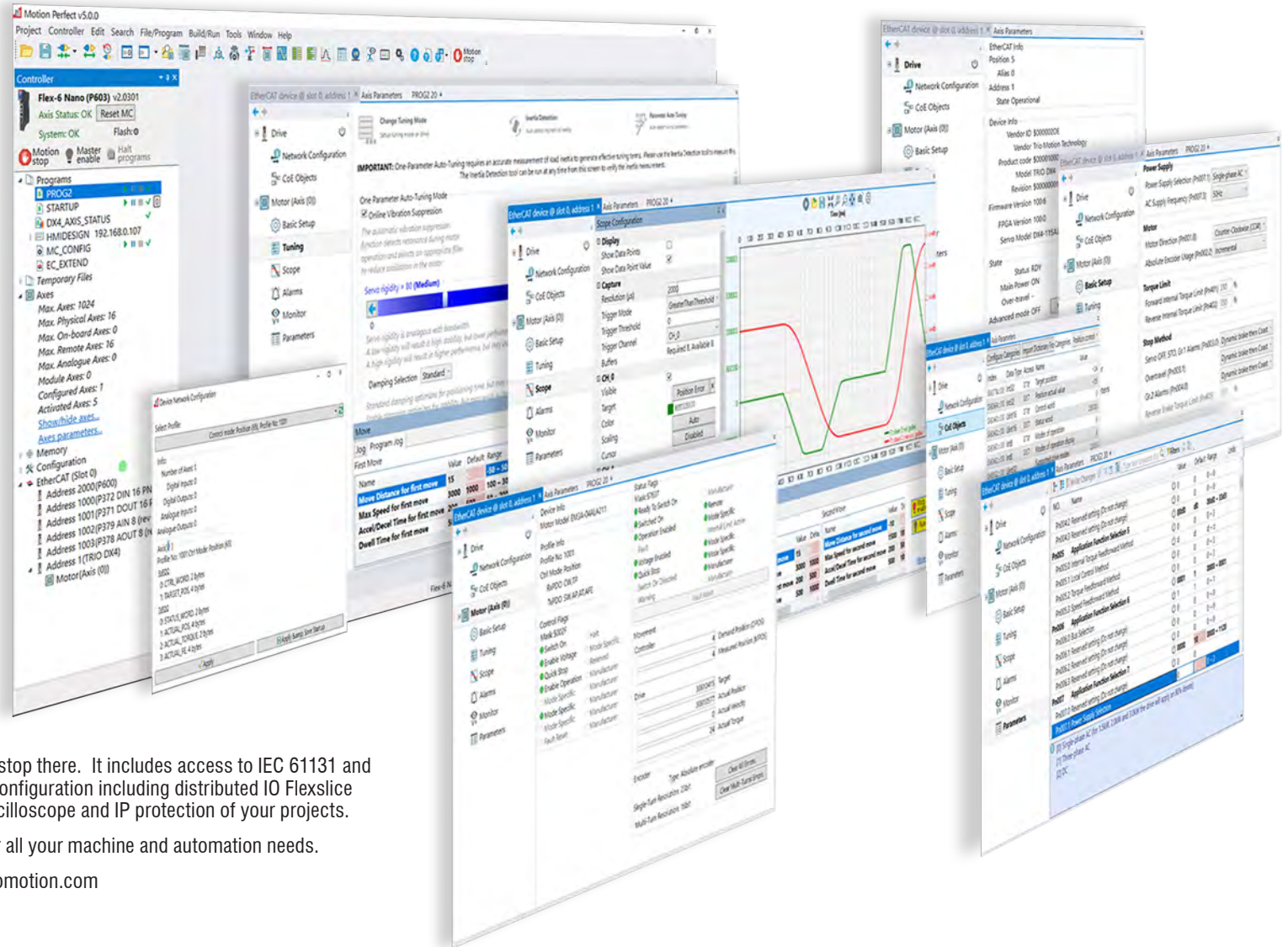
All motor axes can be detected, setup, monitored and controlled in real-time from the easy to use dialogue windows.

Tuning is catered for using a choice of three modes: Tuningless, One Parameter Auto Tuning and Manual Tuning. Whichever mode is chosen, *Motion Perfect* adapts the Intelligent screen to allow full access to the tuning tools.

The integration of *DX4* and *Motion Perfect* doesn't stop there. It includes access to IEC 61131 and PLCopen and our robotics solution; RPS, system configuration including distributed IO Flexslic systems, advanced visualisation including a 3D oscilloscope and IP protection of your projects.

All this and more makes *Motion Perfect* the tool for all your machine and automation needs.

Download and try *Motion Perfect v5* FREE from triomotion.com



APPLICATION SOLUTIONS

200V Servo Solutions

Scalable System Solutions for Machinery OEMs

Factory Automation

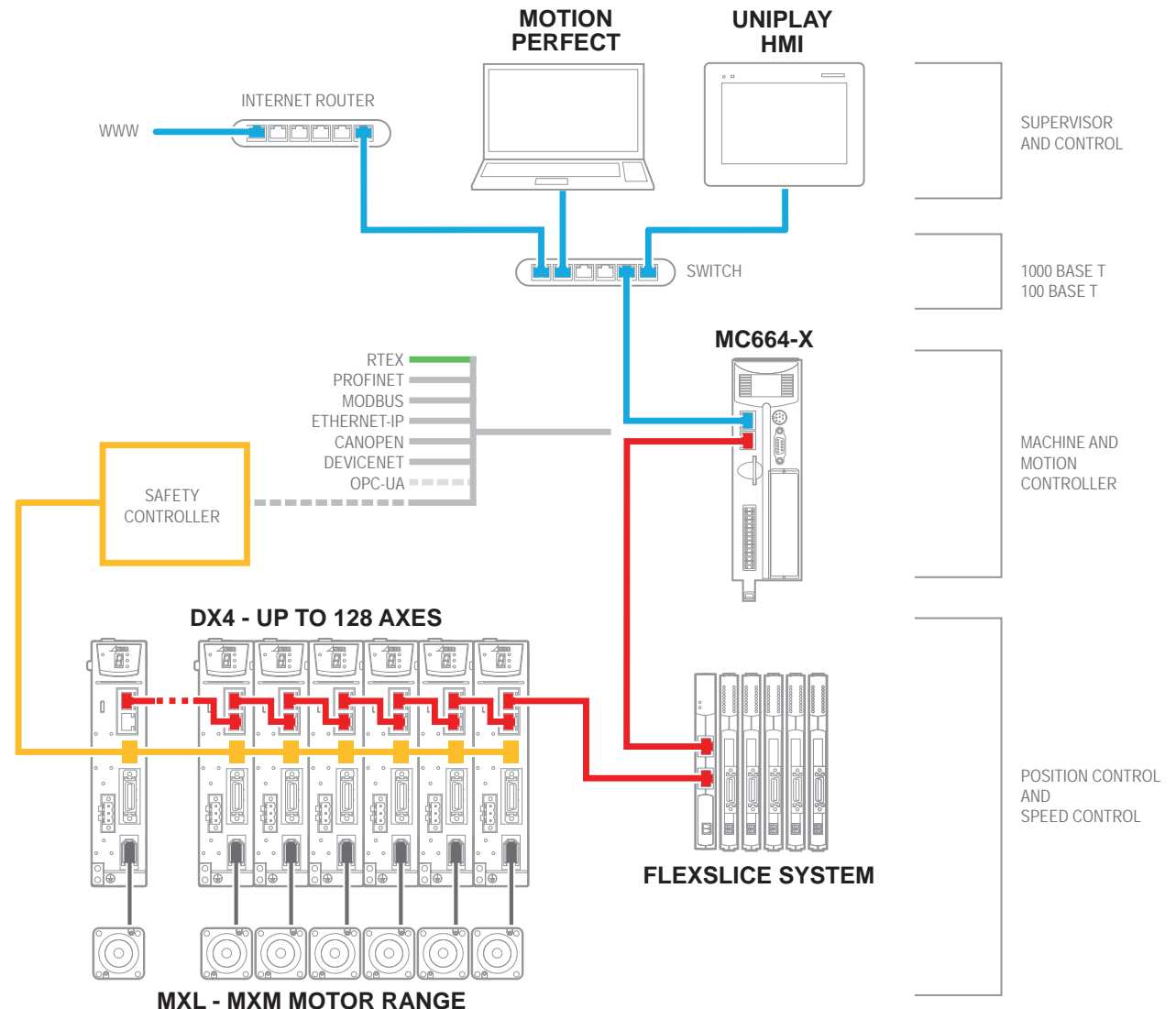
Communicate on all major Ethernet Technologies and Fieldbus level networks.

Automation Packages for Machine Control

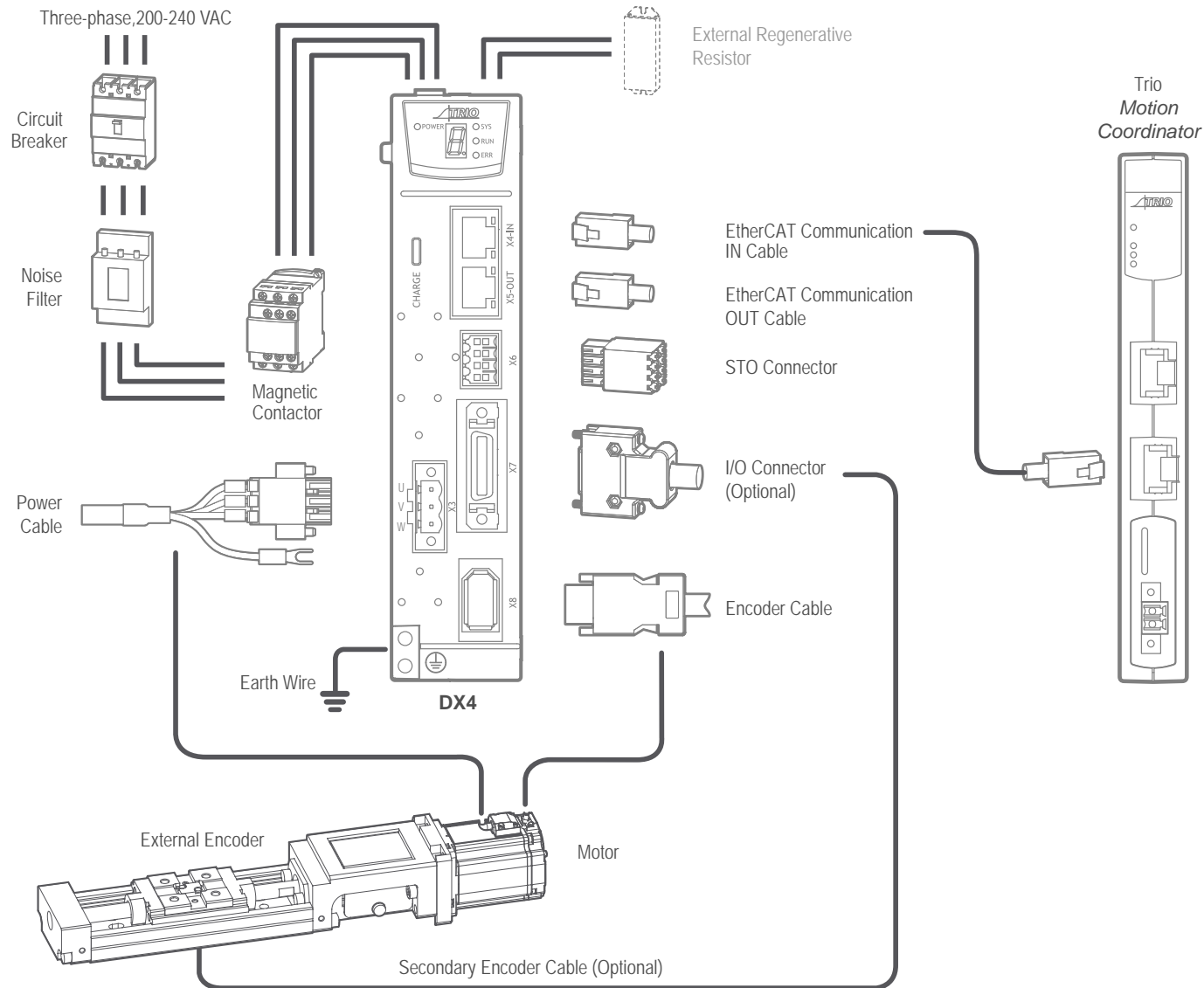
Scalable Control Architectures.
Open Communications and Tools.
Safety.

Motion Control Range

Motion Coordinator with scalable CPU performance.
Packaged Servo Offering.
Modular Decentralised IO Systems:
Digital / Analogue IO, Stepper & Servo axes, Temperature Control and more.



DX4 Wiring Solution Example



DX4 200V Servo Solutions

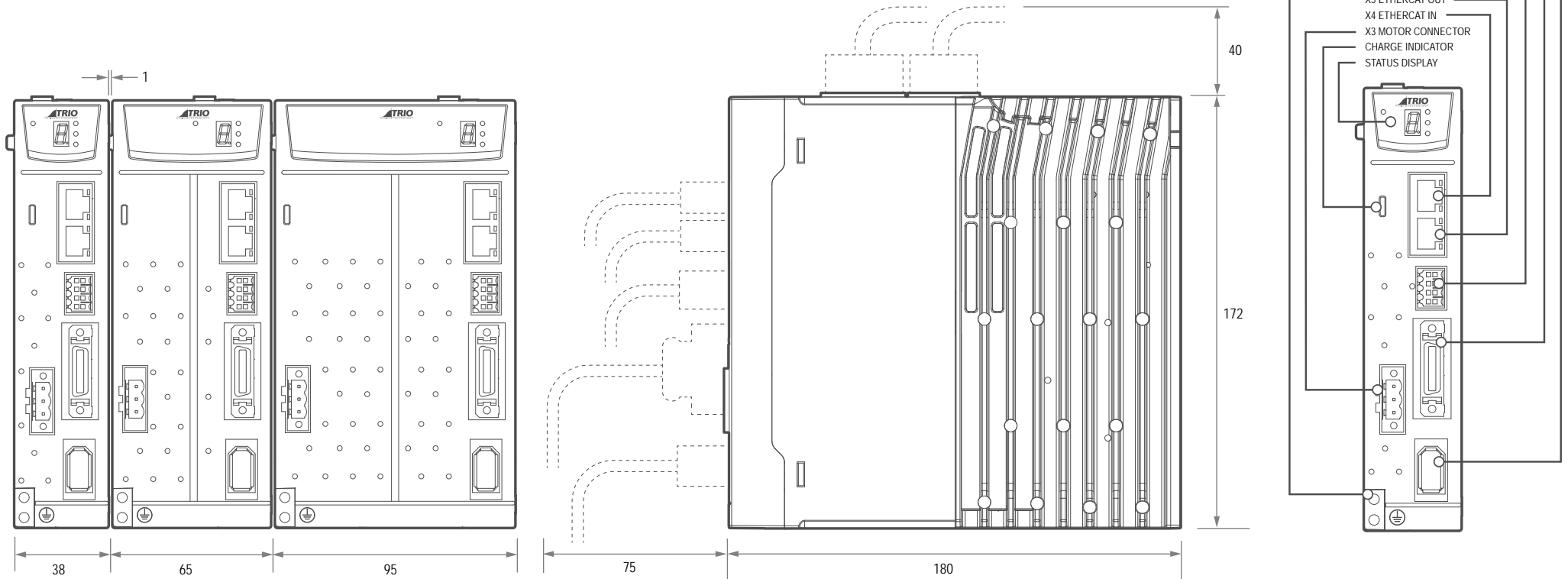
Specification

Drive Model: DX4-		1A5A	101A	102A	104A	108A	110A	115A	120A	130A
Continuous Output Current [Arms]		0.9	1.1	1.5	2.9	5.1	6.9	8.2	11.3	16
Instantaneous Max Output Current [Arms]		3.3	4	5.8	11.5	19.5	21	24.6	33.9	54
Power Supply Capacity [kVA]	Single-phase	0.2	0.3	0.6	1.2	1.9	2.6	4	-	-
	Three-phase	0.2	0.3	0.5	0.9	1.6	2	3	3.5	4.5
Power Supply	Main Circuit	Single-phase or Three-phase 200V ac to 240V ac. • -15% to +10%, 50Hz or 60Hz 270V dc to 324V dc. • -15% to +10% DX4-115* is de-rated to 1.2kW when used with a single-phase supply. DX4-120* and DX4-130* can only be used with a three-phase supply.								
	Control Circuit	Single-phase 200V ac to 240V ac • -15% to +10%, 50Hz or 60Hz 270V dc to 324V dc. • -15% to +10%								
Control Method		SVPWM								
Feedback		Serial encoder: • 20-bit single-turn incremental encoder. • 23-bit single-turn, 16-bit multi-turn absolute encoder.								
Environmental Conditions	Temperature	Ambient temperature: -5°C to 55°C (recommended max ambient temperature not below 40° for zero stacking installation). Storage temperature: -20°C to +85°C								
	Humidity	Both operating and storage: 5% to 95% (with no condensation).								
	Protection Class	IP20								
	Altitude	1,000m or less								
	Vibration Resistance	4.9m/s ²								
	Shock Resistance	19.6m/s ²								
	Power System	TN System								
Mounting		Base-mounted								
Performance	Speed Control Range	1:5000								
	Coefficient of Speed Fluctuation	±0.01% of rated speed max. (For a load fluctuation of 0% to 100%)								
		0% of rated speed max. (For a rated Voltage fluctuation of ±10%) ±0.1% of rated speed max. (For a temperature fluctuation of 25°C ±25°C)								
I/O Signals	Second Encoder Input	Supports A, B, and Z TTL differential type sensor signal. Maximum line frequency of 500kHz.								
	Input Signals	Allowable voltage range: 24V dc ±20% Number of input points: 7 (2 for high-speed optocoupler inputs, fixed as Touch Probe) Touch Probe Signals: TP1 (Touch Probe 1), TP2 (Touch Probe 2). All other inputs are general purpose but can be assigned specific functions during commissioning. These inputs can also be inverted so act as active-low.								
		Allowable Voltage range: 5V dc to 30V dc								
	Output Signals	Number of output points: 4 All outputs are general purpose but can be assigned specific functions during commissioning. These outputs can also be inverted so act as active-low.								

Drive Model: DX4-		1A5A	101A	102A	104A	108A	110A	115A	120A	130A
EtherCAT Communications	Applicable Communications Standards	IEC 61158 Type12, IEC 61800-7 CiA402 Drive Profile								
	Physical Layer	100BASE-TX (IEEE802.3)								
	Communications Connectors	X4-IN (RJ45): EtherCAT signal input connector X5-OUT (RJ45): EtherCAT signal output connector								
	Cable	Category 5, Shielded/Foiled Twisted Pairs (CAT5e SF/UTP)								
	Sync Manager	SM0: Mailbox output, SM1: Mailbox input, SM2: Process data output, and SM3: Process data input								
	FMMU	FMMU 0: Mapped in process data output (RxPDO) area. FMMU 1: Mapped in process data input (TxPDO) area. FMMU 2: Mapped to mailbox status.								
	EtherCAT Commands (Data Link Layer)	APRD, FPRD, BRD, LRD, APWR, FPWR, BWR, LWR, ARMW, FRMW (APRW, FPRW, BRW, and LRW commands are not supported.)								
	Process Data	Assignments can be changed with PDO mapping.								
	MailBox (CoE)	Emergency messages, SDO requests, SDO responses.								
	Distributed Clocks	Free-Run Mode and DC Mode (Can be switched). Applicable DC cycles: 125 µs to 8 ms								
Slave Information Interface	256 bytes (read-only)									
CiA402 Drive Profile		Cyclic Synchronous Position Mode Cyclic Synchronous Velocity Mode Cyclic Synchronous Torque Mode Touch Probe Function Torque Limit Function								
Display		One 7-segment LED								
Indicator Lamps		CHARGE, POWER, RUN, SYS, ERR, L/A IN, L/A OUT								
Regenerative Processing		DX4-1A5*, DX4-101*, DX4-102* and DX4-104* must connect an external regenerative resistor. Other models are built in.								
Protective Functions		Overcurrent, Overvoltage, Undervoltage, Overload, Regeneration Error, Overspeed, etc.								
Utility Functions		Alarm history, Jogging, Load inertia identification, Auto-Tuning, etc.								
Safe Torque Off		According to IEC 61800-5-2. Cat.4, PLe according to ISO 13849-1, SIL3 according to IEC 61508, IEC 62061.								

DX4 200V Servo Solutions

Dimensions



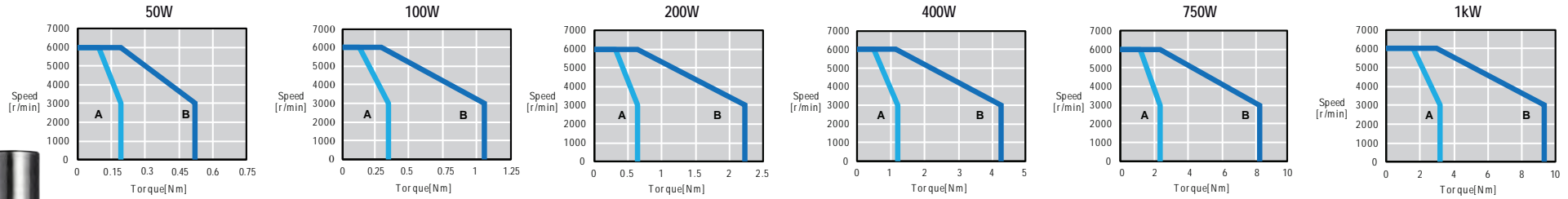
- DX4-1A5A DX4-108A DX4-120A
- DX4-101A DX4-110A DX4-130A
- DX4-102A DX4-115A
- DX4-104A

Product	Output Power	Height (mm)	Width (mm)	Depth (mm)
DX4-1A5A	50W	172	38	180
DX4-101A	100W	172	38	180
DX4-102A	200W	172	38	180
DX4-104A	400W	172	38	180
DX4-108A	750W	172	65	180
DX4-110A	1kW	172	65	180
DX4-115A	1.5kW	172	65	180
DX4-120A	2kW	172	95	180
DX4-130A	3kW	172	95	180

All Models : Voltage = 200V ac

MXL Motors

Low Inertia High Speed (MXL) Servo Motors



A: Continuous Working Area B: Repeatedly Working Area

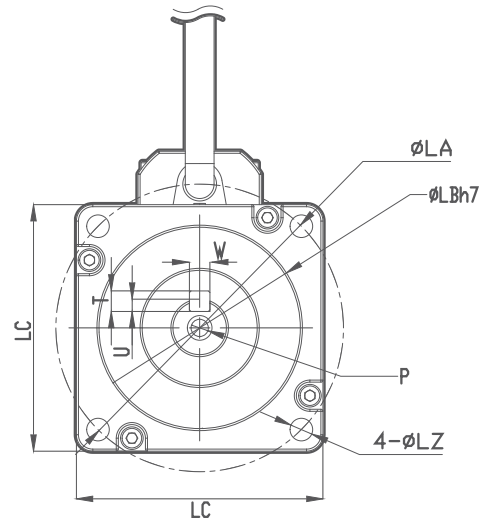
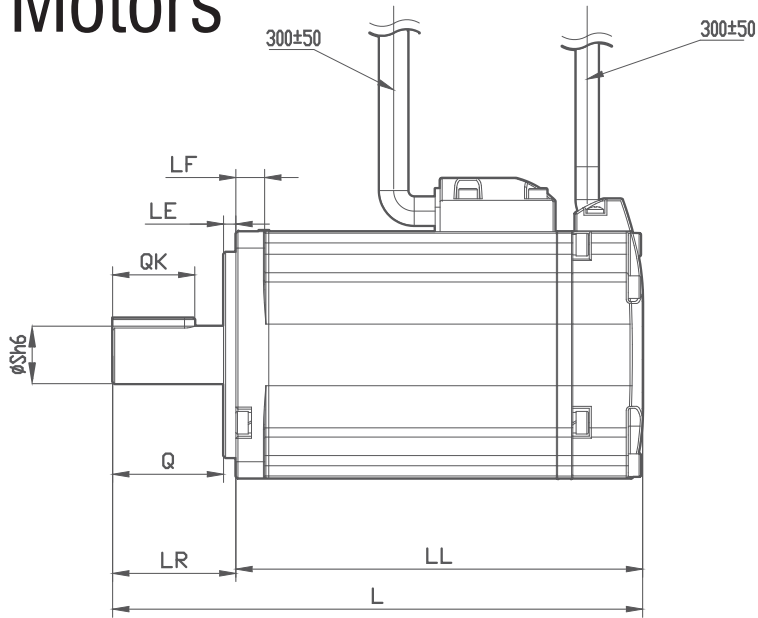


- Choose motor to match the load and dynamics, inertia, brake / no brake
- 20-bit Incremental or 23-bit Absolute high performance encoders
- IP65 rated
- Oil seal as standard
- 200V ac supply Voltage

Servo Motor Detail		50W	100W	200W	400W	750W	1kW
Rated Output	kW	0.05	0.1	0.2	0.4	0.75	1
Rated Torque	N-m	0.159	0.318	0.63	1.27	2.39	3.18
Instantaneous Peak Torque	N-m	0.557	1.11	2.21	4.45	8.37	9.55
Rated Current	Arms	0.9	1.1	1.5	2.9	5.1	6.9
Instantaneous Max current	Arms	3.3	4.0	5.8	11.5	19.5	21.0
Rated Speed	r/min	3000					
Max. Speed	r/min	6000					
Rotor Moment of Inertia	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	0.023 (0.0268)	0.0428 (0.0465)	0.147 (0.179)	0.244 (0.276)	0.909 (1.07)	1.14 (1.30)
Weight	kg	0.368 (0.588)	0.491 (0.696)	0.9 (1.3)	1.3 (1.7)	2.6 (3.2)	3.1 (3.8)
Brake Rated Voltage		DC24V \pm 10%					
Brake Rated Power	W	4.0		7.4		9.6	
Brake Rated Torque	Nm	0.32		1.5		3.2	
Encoder		20-bit Incremental Encoder 1048576 P/R; 23-bit Absolute Encoder 8388608P/R					
Insulation Class		F					
Ambient Temperature		0 ~ +40°C (No freezing)					
Ambient Humidity		20%~80% RH (No condensing)					
Vibration		Vibration: Dynamic $\leq 49 \text{m/s}^2$ 5G; Static $\leq 24.5 \text{m/s}^2$; Shock: $\leq 98 \text{m/s}^2$ (10G)					
Enclosure		Totally Enclosed, Self-cooled, IP65					

Note: The data inside parenthesis represents the values with brake.

MXL Motors



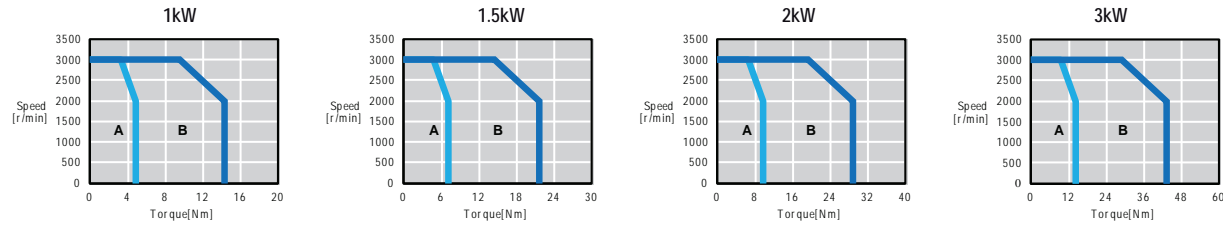
POWER	MXL-	L	LL	Flange Side								S	Threaded hole x Depth	Key				
				LR	LE	LF	LC	LA	LB	LZ	QK			W	T	U	Q	
50W	A5A0430L	87.5 (121)	62.5 (96)	25	2.5	5	40	46	30	4.3	8	M3X6	14	3	3	1.8	22.5	
100W	01A0430L	103.5 (137)	78.5 (112)	25	2.5	5	40	46	30	4.3	8	M3X6	14	3	3	1.8	22.5	
200W	02A0630L	108 (137)	78 (107)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27	
400W	04A0630L	129 (158)	99 (128)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27	
750W	08A0830L	141 (184)	111 (144)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37	
1kW	10A0830L	155 (198)	125 (158)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37	
200W	02A0630F	126.5 (155.5)	96.5 (125.5)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27	
400W	04A0630F	147.5 (176.5)	117.5 (146.5)	30	3	7	60	70	50	5.5	14	M5X12	20	5	5	3	27	
750W	08A0830F	169.5 (202.5)	129.5 (162.5)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37	
1kW	10A0830F	183.5 (216.5)	143.5 (176.5)	40	3	8	80	90	70	6.6	19	M6X12	25	6	6	3.5	37	

Note: Numbers inside parentheses represents the values with brake.

MXL	-	Rated Power	Supply Voltage	Flange	Rated Speed	Encoder	Revision	Shaft End	Option Parts	Connector Type
A5		50W	A	04	30	F	A	2	2	2
01		100W		06	3000 RPM	20-bit inc		With key	With oil seal	Water proof
02		200W		08		23-bit abs			With oil seal	
04		400W							With brake	
08		750W								
10		1kW								

MXM Motors

Medium Inertia Medium Speed (MXM) Servo Motors



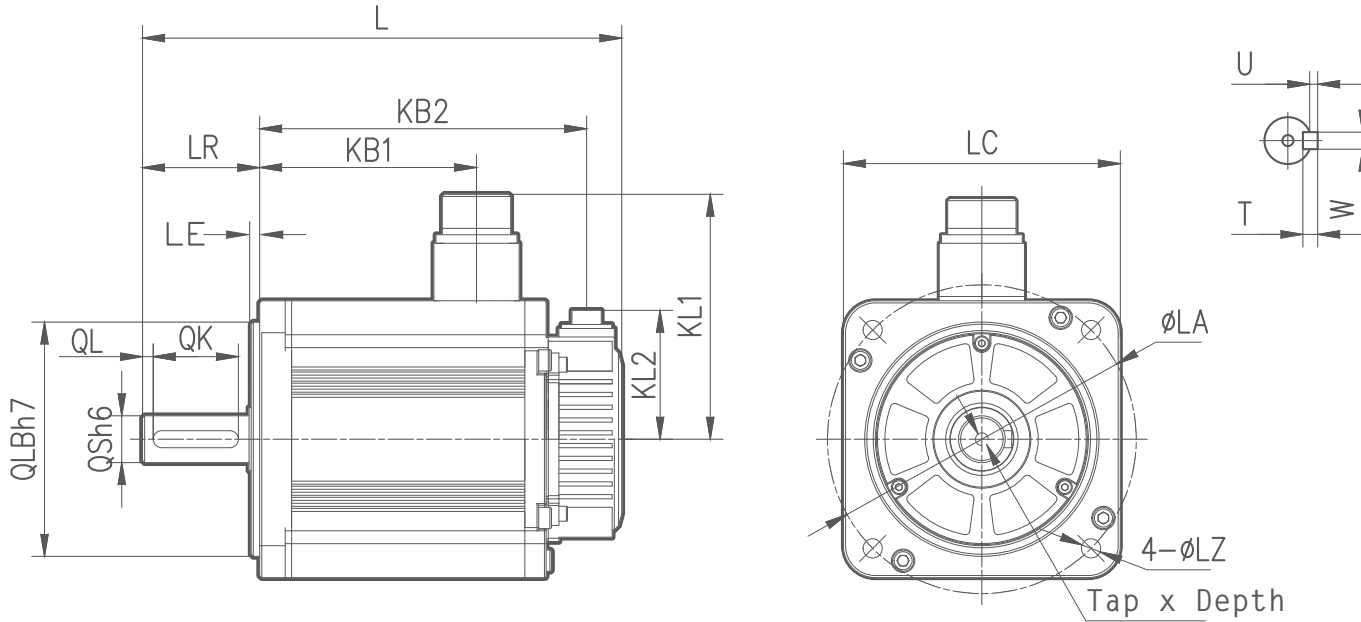
A: Continuous Working Area B: Repeatedly Working Area

- Choose motor to match the load and dynamics, inertia, brake / no brake
- 20-bit Incremental or 23-bit Absolute high performance encoders
- IP65 rated
- Oil seal as standard
- 200V ac supply Voltage

Servo Motor Detail		1kW	1.5kW	2kW	3kW
Rated Output	kW	1.0	1.5	2.0	3.0
Rated Torque	N-m	4.78	7.16	9.55	14.3
Instantaneous Peak Torque	N-m	14.3	21.5	28.7	40
Rated Current	Arms	5.8	8.2	11.3	18.0
Instantaneous Max current	Arms	17.4	24.6	33.9	54.0
Rated Speed	r/min	2000			
Max. Speed	r/min	3000			
Rotor Moment of Inertia	$\times 10^{-4} \text{kg}\cdot\text{m}^2$	13.2 (14.3)	18.4 (19.5)	23.5 (24.6)	41.3 (44.5)
Weight	kg	7 (8.5)	8.9 (10.4)	10.8 (12.3)	16.63 (20.23)
Brake Rated Voltage		DC24V \pm 10%			
Brake Rated Power	W	19.5			35
Brake Rated Torque	N-m	12			40
Encoder		20-bit Incremental Encoder 1048576 P/R; 23-bit Absolute Encoder 8388608P/R			
Insulation Class		F			
Ambient Temperature		0 ~ +40°C (No freezing)			
Ambient Humidity		20%~80% RH (No condensing)			
Vibration		24.5m/s ²			
Enclosure		Self-cooled, IP65 (excluding Connecting Joint With Cable)			

Note: The data inside parenthesis represents the values with brake.

MXM Motors



POWER	MXM-	L	LL	KB1	KB2	KL1	KL2	Flange Side						S	Threaded hole x Depth	Key							
								LR	LE	LF	LC	LA	LB			LZ	OK	QL	W	T	U		
1KW	10A1320F	203 (245.5)	148 (190.5)	80 (103.2)	131.5 (174)																		
1.5KW	15A1320	225 (267.5)	170 (212.5)	102 (125.2)	153.5 (196)	117	60.5	55	4	12	130	145	110	9	22	M6×20	40	5	8	7	4		
2KW	20A1320	247 (289.5)	192 (234.5)	124 (147.2)	175.5 (218)																		
3KW	30A1820	307 (378)	228 (299)	143	203 (274)	140	79	79	3.2	18	180	200	114.3	135	35	M8×16	55	6	10	8	5		

Note: Numbers inside parentheses represents the values with brake.

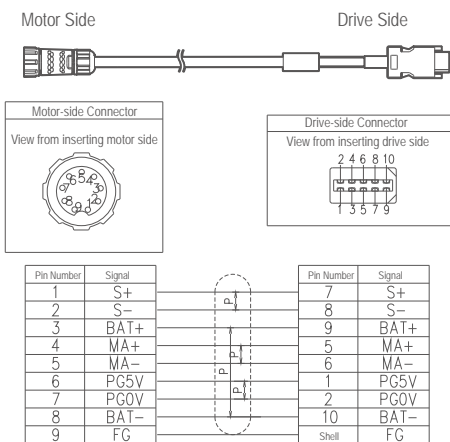
MXM	-	Rated Power	Supply Voltage	Flange	Rated Speed	Encoder	Revision	Shaft End	Option Parts	Connector Type
		10 1kW 15 1.5kW 20 2kW 30 3kW	A 200VAC	13 130mm 18 180mm	20 2000 RPM	F 20-bit inc L 23-bit abs	A - B - D -	2 With key	2 With oil seal 4 With oil seal With brake	3 On motor

CABLES

Encoder Cables

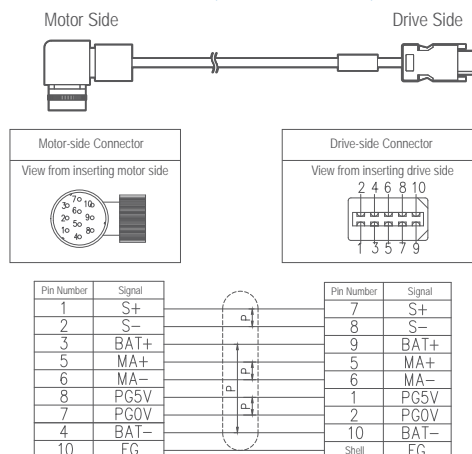
MXL Motors (50W - 1kW)

EC3S-I1724-XX (Inc Encoder)



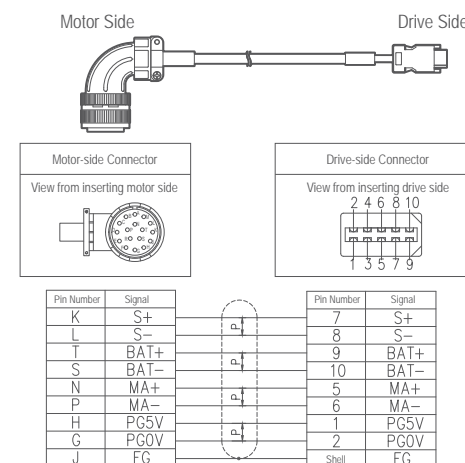
MXM Motors (1kW - 2kW)

EC3S-I1324-XX (Inc Encoder)

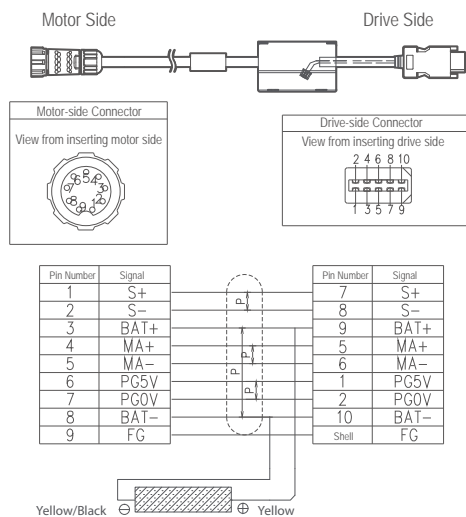


MXM Motors (3kW)

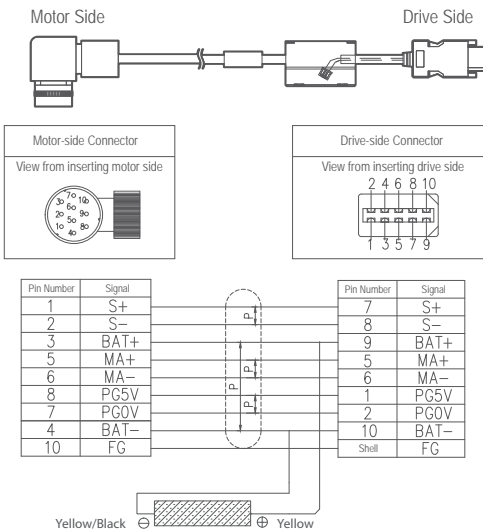
EC3S-I1424-XX (Inc Encoder)



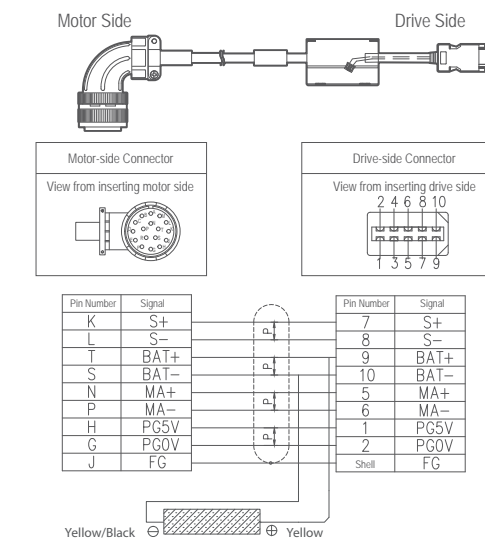
EC3S-A1724-XX (Abs Encoder)



EC3S-A1324-XX (Abs Encoder)



EC3S-A1424-XX (Abs Encoder)



CABLES

Power Cables

MXL Motors (50W - 1kW)

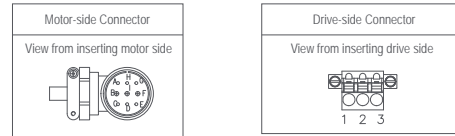
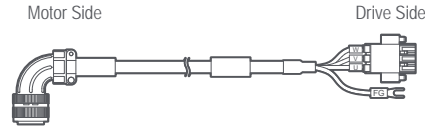
EC3P-N1718-XX (No Brake)



Pin Number	Signal	Pin Number	Signal
1	U	1	U
2	V	2	V
3	W	3	W
4	FG	Crimp Terminal	FG

MXM Motors (1kW - 1.5kW)

EC3P-N1314-XX (No Brake)

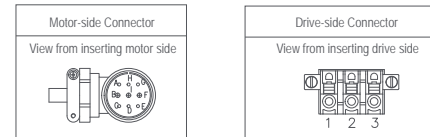
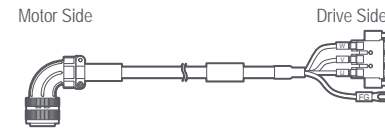


Pin Number	Signal	Pin Number	Signal
B	U	1	U
I	V	2	V
F	W	3	W
C	FG	Crimp Terminal	FG
D	FG		

Shorting Stub, Cable BVR1.5mm²

MXM Motors (2kW)

EC3P-N2314-XX (No Brake)

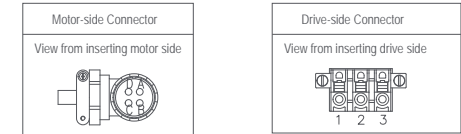
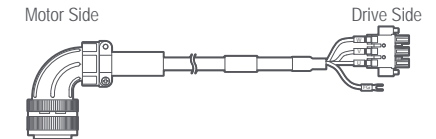


Pin Number	Signal	Pin Number	Signal
B	U	1	U
I	V	2	V
F	W	3	W
C	FG	Crimp Terminal	FG
D	FG		

Shorting Stub, Cable BVR1.5mm²

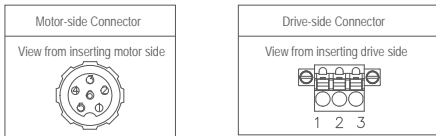
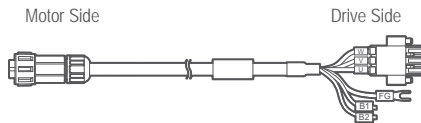
MXM Motors (3kW)

EC3P-N2413-XX



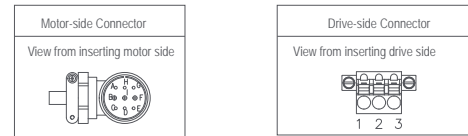
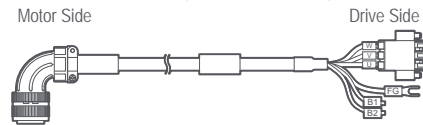
Pin Number	Signal	Pin Number	Signal
A	U	1	U
B	V	2	V
C	W	3	W
D	FG	Crimp Terminal	FG

EC3P-B1718-XX (With Brake)



Pin Number	Signal	Pin Number	Signal
1	U	1	U
2	V	2	V
3	W	3	W
4	FG	Crimp Terminal	FG
5	B1		
6	B2		

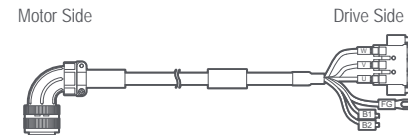
EC3P-B1314-XX (With Brake)



Pin Number	Signal	Pin Number	Signal
B	U	1	U
I	V	2	V
F	W	3	W
C	FG	Crimp Terminal	FG
D	FG		
G	B1		B1
H	B2		B2

Shorting Stub, Cable BVR1.5mm²

EC3P-B2314-XX (With Brake)



Pin Number	Signal	Pin Number	Signal
B	U	1	U
I	V	2	V
F	W	3	W
C	FG	Crimp Terminal	FG
D	FG		
G	B1		B1
H	B2		B2

Shorting Stub, Cable BVR1.5mm²

Power Cable With Brake

Brake cable for the 3kW MXM motor is separate to the motor power cable, the brake cable connector is available as part number **MC10-SP2S-S**.

Selection Table

200V Servo Solutions

Part Numbers

Description	Drive		Motor		Encoder Cable		Power Cable	
	Part No.	Model	Part No.	Model	Part No.	Model	Part No.	Model
50W, Low Inertia, 23-bit Abs Encoder, No brake	D0108*	DX4-1A5AJA	M0758	MXL-A5A0430LA222	X0106 (inc)	EC3S-I1724-xx (inc)	X0148	EC3P-N1718-xx
50W, Low Inertia, 23-bit Abs Encoder, With brake			M0759	MXL-A5A0430LA242	X0107 (abs)	EC3S-A1724-xx (abs)	X0149	EC3P-B1718-xx
100W, Low Inertia, 23-bit Abs Encoder, No brake	D0107*	DX4-101AJA	M0756	MXL-01A0430LA222	X0106 (inc)	EC3S-I1724-xx (inc)	X0148	EC3P-N1718-xx
100W, Low Inertia, 23-bit Abs Encoder, With brake			M0757	MXL-01A0430LA242	X0107 (abs)	EC3S-A1724-xx (abs)	X0149	EC3P-B1718-xx
200W, Low Inertia, 20-bit Inc Encoder, No brake	D0106	DX4-102AJA	M0652	MXL-02A0630FA222	X0106	EC3S-I1724-xx	X0148	EC3P-N1718-xx
200W, Low Inertia, 20-bit Inc Encoder, With brake			M0653	MXL-02A0630FA242			X0149	EC3P-B1718-xx
200W, Low Inertia, 23-bit Abs Encoder, No brake			M0654	MXL-02A0630LA222	X0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx
200W, Low Inertia, 23-bit Abs Encoder, With brake			M0655	MXL-02A0630LA242			X0149	EC3P-B1718-xx
400W, Low Inertia, 20-bit Inc Encoder, No brake			M0644	MXL-04A0630FA222			X0106	EC3S-I1724-xx
400W, Low Inertia, 20-bit Inc Encoder, With brake	M0645	MXL-04A0630FA242	X0149	EC3P-B1718-xx				
400W, Low Inertia, 23-bit Abs Encoder, No brake	M0646	MXL-04A0630LA222	X0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx		
400W, Low Inertia, 23-bit Abs Encoder, With brake	M0647	MXL-04A0630LA242			X0149	EC3P-B1718-xx		
750W, Low Inertia, 20-bit Inc Encoder, No brake	D0104	DX4-108AJA	M0636	MXL-08A0830FA222	X0106	EC3S-I1724-xx	X0148	EC3P-N1718-xx
750W, Low Inertia, 20-bit Inc Encoder, With brake			M0637	MXL-08A0830FA242			X0149	EC3P-B1718-xx
750W, Low Inertia, 23-bit Abs Encoder, No brake			M0638	MXL-08A0830LA222	X0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx
750W, Low Inertia, 23-bit Abs Encoder, With brake			M0639	MXL-08A0830LA242			X0149	EC3P-B1718-xx
1kW, Low Inertia, 20-bit Inc Encoder, No brake	D0103	DX4-110AJA	M0628	MXL-10A0830FA222	X0106	EC3S-I1724-xx	X0148	EC3P-N1718-xx
1kW, Low Inertia, 20-bit Inc Encoder, With brake			M0629	MXL-10A0830FA242			X0149	EC3P-B1718-xx
1kW, Low Inertia, 23-bit Abs Encoder, No brake			M0630	MXL-10A0830LA222	X0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx
1kW, Low Inertia, 23-bit Abs Encoder, With brake			M0631	MXL-10A0830LA242			X0149	EC3P-B1718-xx

Description	Drive		Motor		Encoder Cable		Power Cable	
	Part No.	Model	Part No.	Model	Part No.	Model	Part No.	Model
1kW, Med Inertia, 20-bit Inc Encoder, No brake	D0103	DX4-110AJA	M0620	MXM-10A1320FD223	X0102	EC3S-I1324-xx	X0144	EC3P-N1314-xx
1kW, Med Inertia, 20-bit Inc Encoder, With brake			M0621	MXM-10A1320FD243			X0145	EC3P-B1314-xx
1kW, Med Inertia, 23-bit Abs Encoder, No brake			M0622	MXM-10A1320LB223	X0103	EC3S-A1324-xx	X0144	EC3P-N1314-xx
1kW, Med Inertia, 23-bit Abs Encoder, With brake			M0623	MXM-10A1320LB243			X0145	EC3P-B1314-xx
1.5kW, Med Inertia, 20-bit Inc Encoder, No brake	D0102	DX4-115AJA	M0612	MXM-15A1320FD223	X0102	EC3S-I1324-xx	X0144	EC3P-N1314-xx
1.5kW, Med Inertia, 20-bit Inc Encoder, With brake			M0613	MXM-15A1320FD243			X0145	EC3P-B1314-xx
1.5kW, Med Inertia, 23-bit Abs Encoder, No brake			M0614	MXM-15A1320LB223	X0103	EC3S-A1324-xx	X0144	EC3P-N1314-xx
1.5kW, Med Inertia, 23-bit Abs Encoder, With brake			M0615	MXM-15A1320LB243			X0145	EC3P-B1314-xx
2kW, Med Inertia, 20-bit Inc Encoder, No brake			M0604	MXM-20A1320FD223			X0102	EC3S-I1324-xx
2kW, Med Inertia, 20-bit Inc Encoder, With brake	M0605	MXM-20A1320FD243	X0143	EC3P-B2314-xx				
2kW, Med Inertia, 23-bit Abs Encoder, No brake	M0606	MXM-20A1320LB223	X0103	EC3S-A1324-xx	X0142	EC3P-N2314-xx		
2kW, Med Inertia, 23-bit Abs Encoder, With brake	M0607	MXM-20A1320LB243			X0143	EC3P-B2314-xx		
3kW, Med Inertia, 20-bit Inc Encoder, No brake	D0100	DX4-130AJA	M0600	MXM-30A1820FD223	X0100	EC3S-I1424-xx	X0141	EC3P-N2413-xx
3kW, Med Inertia, 20-bit Inc Encoder, With brake			M0601	MXM-30A1820FD243			X0141	EC3P-N2413-xx
3kW, Med Inertia, 23-bit Abs Encoder, No brake			M0602	MXM-30A1820LA223	X0101	EC3S-A1424-xx	X0141	EC3P-N2413-xx
3kW, Med Inertia, 23-bit Abs Encoder, With brake			M0603	MXM-30A1820LA243			X0141	EC3P-N2413-xx

* Note: D0108 and D0107 can be configured to use the encoder as either incremental or absolute.





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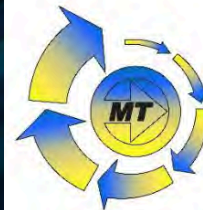
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