



A MEMBER OF THE **ESTUR** GROUP

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.

MAINS AC INPUT

CONTROL CIRCUIT SUPPLY

DRIVE AND ETHERCAT

HIGH VOLTAGE CHARGE

ETHERCAT PORTS: UPDATE RATES DOWN TO

FUNCTIONAL SAFETY DUAL STO (SIL3, PLE)

7 X DIGITAL INPUTS (INCLUDING 2 X HIGH SPEED FOR TOUCH PROBE) 4 X DIGITAL OUTPUTS SECOND ENCODER INPUT FOR DUAL ENCODER APPLICATION

MOTOR POWER

20-BIT INCREMENTAL OR 23-BIT ABSOLUTE ENCODER INTERFACE 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



DX4200V Servo Solutions



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Frame sizes to suit all requirements

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 PRODUCTS200V 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.

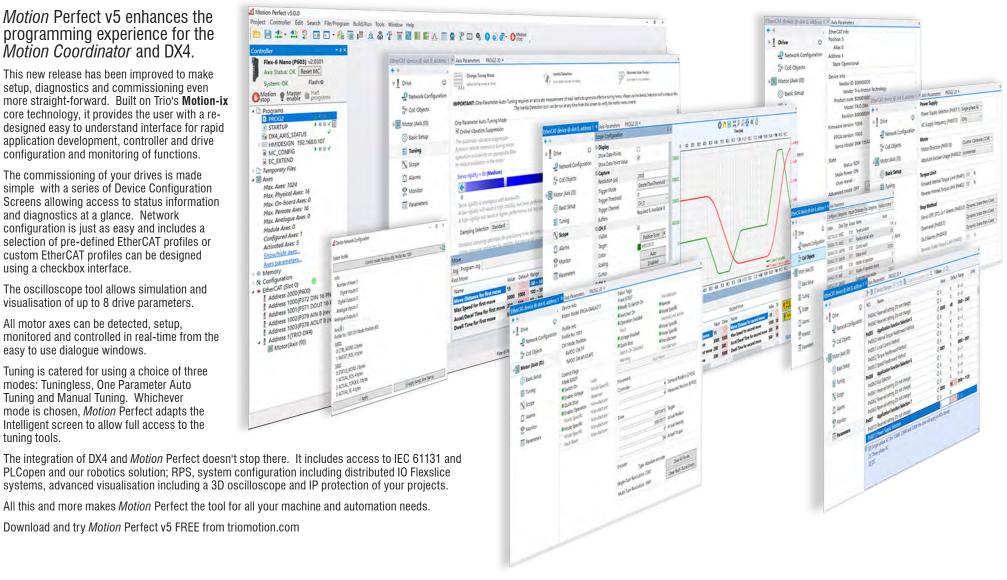
This new release has been improved to make setup, diagnostics and commissioning even more straight-forward. Built on Trio's Motion-ix core technology, it provides the user with a redesigned easy to understand interface for rapid application development, controller and drive configuration and monitoring 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.



APPLICATION SOLUTIONS200V 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.

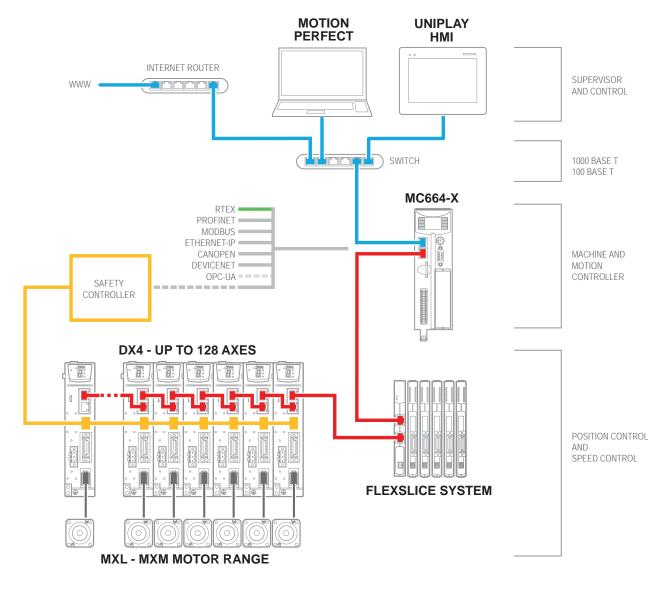
Motion Control Range

Motion Coordinator with scalable CPU performance.

Packaged Servo Offering.

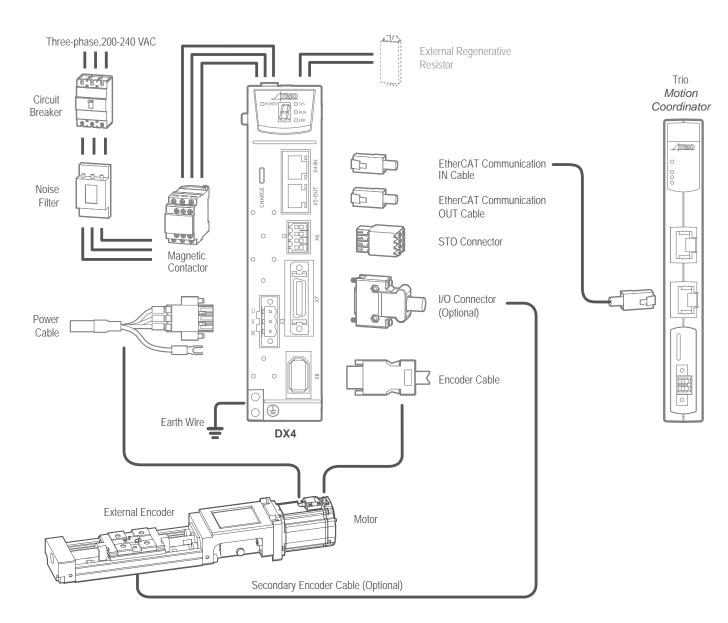
Modular Decentralised IO Systems:

Digital / Analogue IO, Stepper & Servo axes, Temperature Control and more.



DX4Wiring Solution Example





DX4 200V Servo Solutions

TRIO TECHNOLOGY

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Specification

Drive Model: DX	4-	1A5A	101A	102A	104A	108A	110A	115A	120A	130A	
Continuous Outp	ut Current [Arms]	0.9	1.1	1.5	2.9	5.1	6.9	8.2	11.3	16	
Instantaneous Ma	ax Output Current [Arms]	3.3	4	5.8	11.5	19.5	21	24.6	33.9	54	
Power Supply	Single-phase	0.2	0.3	0.6	1.2	1.9	2.6	4	-	-	
Capacity [kVA]	Three-phase	0.2	0.3	0.5	0.9	1.6	2	3	3.5	4.5	
Power Supply	Main Circuit	• -15% to 270V do • -15% to DX4-115	o +10%, 5 to 324V o o +10% 5* is de-ra	OHz or 60 lc. ted to 1.2k	Hz <w td="" when<=""><td>used with</td><td>a single-p</td><td></td><td></td><td></td></w>	used with	a single-p				
Control Circuit Single-pha 270V dc to 270V dc to 50 Control Method SVPWM Feedback Serial encc 20-bit sin 23-bit sin 423-bit sin 23-bit sin 523-bit s											
Control Method		SVPWN	1								
Feedback	Feedback • 20-bit sin						ncoder.				
	Temperature	Ambient temperature: -5°C to 55°C (recommended max ambient temperature not below 40° for zero stacking installation).									
	Humidity	U				% (with n	o condens	sation).	emperature not		
	,	Ambient temperature: -5°C to 55°C (recommended max ambient temperation below 40° for zero stacking installation). Storage temperature: -20°C to +85°C Both operating and storage: 5% to 95% (with no condensation). IP20 1,000m or less									
Conditions			or less			rrn absolute encoder. C (recommended max ambient temperature not ation). 5°C					
		,									
	**20-bit single-turn incremental encoder. **23-bit single-turn, 16-bit multi-turn absolute Ambient temperature: -5°C to 55°C (recomme below 40° for zero stacking installation). Storage temperature: -20°C to +85°C Humidity Both operating and storage: 5% to 95% (with Protection Class IP20 Altitude 1,000m or less Vibration Resistance 4.9m/s2 Shock Resistance 19.6m/s2 Power System TN System Base-mounted Speed Control Range 1:5000										
	Power System	TN Svst	em								
Mounting											
J	Speed Control Range										
	,	±0.01%	of rated s	peed max	. (For a lo	ad fluctua	ition of 0%	6 to 100%)		
Performance	Coefficient of Speed										
	Fluctuation										
	Second Encoder Input	Supports A. B. and 7 TTL differential type sensor signal. Maximum line frequency of									
Power Supply Main Circuit 15% to +10%, 50Hz or 60Hz 270V dc to 324V dc15% to +10% DX4-1120* and DX4-130* can only be used with a single-phase bX4-120* and DX4-130* can only be used with a three-phase single-phase 200V ac to 240V ac *-15% to +10%, 50Hz or 60 Control Method Control Method Feedback SVPWM Serial encoder:20-bit single-turn incremental encoder23-bit single-turn, 16-bit multi-turn absolute encoder. Ambient temperature: -5°C to 55°C (recommended max ambiest 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 Shock Resistance 19.6m/s2 Power System Mounting Speed Control Range Power System Mounting Speed Control Range Coefficient of Speed Fluctuation											
	nputs, fixe	ed as Touc	h Probe)								
	Input Signals	Touch P	4 5.8 11.5 19.5 21 24.6 33.9 54 2 0.3 0.6 1.2 1.9 2.6 4 2 0.3 0.5 0.9 1.6 2 3 3.5 4.5 single-phase or Three-phase 200V ac to 240V ac. -15% to +10%, 50Hz or 60Hz 70V dc to 324V dc. -15% to +10% 3X4-115° is de-rated to 1.2kW when used with a single-phase supply. 3X4-120° and DX4-130° can only be used with a three-phase supply. 3X4-120° and DX4-130° can only be used with a three-phase supply. 3X4-120° and DX4-130° can only be used with a three-phase supply. 3X5-15% to +10% 3X6-10% 3X6-10% 3X7-10% 3X7-1								
I/O Signals										luring	
		Allowab	le Voltage	range: 5\	/ dc to 30	V dc					
	Output Signals	Number	of output	points: 4							
	Output Signals		uts are gen sioning. T							g	

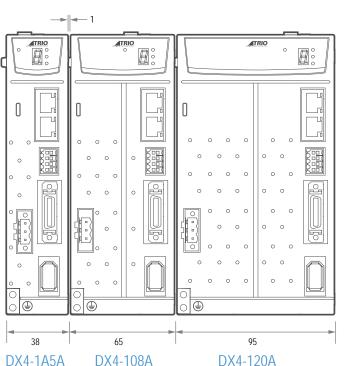
Drive Model: DX4	-	1A5A	101A	102A	104A	108A	110A	115A	120A	130A		
	Applicable Communications Standards	IEC 6115	58 Type12	, IEC 6180	00-7 CiA40)2 Drive F	Profile					
	Physical Layer	100BAS	E-TX (IEE	E802.3)								
	Communications Connectors						ctor					
	Cable	Category	y 5, Shield	led/Foiled	Twisted P	airs (CAT	5e SF/UT	P)				
	Sync Manager				Mailbox in	out, SM2:	Process	data outpu	ıt, and SM	13:		
Applicable Communications Standards Physical Layer 1008ASE-TX (IEEE802.3) Commectors X4-IN (RJ45): EtherCAT signal input connector X5-OUT (RJ45): EtherCAT signal input connector Cable Category 5, Shielded/Foiled Twisted Pairs (CAT5e SF/UTP) Sync Manager Sync Manager FMMU 0: Mapped in process data output (RxPDO) area. FMMU 1: Mapped in process data input (TxPDO) area. FMMU 2: Mapped in process data input (TxPDO) area. FMMU 3: Mapped in process data input (TxPDO) area. FMMU 2: Mapped in process data input (TxPDO) area. FMMU 3: Mapped in process data input (TxPDO) area. FMMU 6: Mapped in process data input (TxPDO) area. FMMU 6: Mapped in process data input (TxPDO) area. FMMU 7: Mapped in process data input (TxPDO) area. FMMU 8: Mapped in process data input (TxPDO) area. FMMU 8: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data output (RxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data output (RxPDO) area. FMMU 9: Mapped in process data output (RxPDO) area. FMMU 9: Mapped in process data output (RxPDO) area. FMMU 9: Mapped in process data output (RxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data output (RxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (TxPDO) area. FMMU 9: Mapped in process data input (RxPDO) area. FMMU 9: Mapped in process data input (RxPDO) area. FMMU 9: Mapped in process data input (RxPDO) area. FMMU 9: Mapped in process data input (RxPDO) area. FMMU 9: Mapped in process data input (RxPDO) area. FMU 9: Mapped in process data input (RxPDO) area. FMU 9: Mapped in process data in												
								RMW, FRI	MW (APR)	N,		
EtherCAT Communications CiA402 Drive Pro Display Indicator Lamps Regenerative Pro Protective Function	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 $8 \ ms$										
	Applicable Communications Standards Physical Layer 100BASE-TX (IEEE802.3) Communications Connectors X5-OUT (RJ45): EtherCAT signal input connector X5-OUT (RJ45): EtherCAT signal output connector X5-OUT (RJ45): EtherCAT signal input steps also s											
CiA402 Drive Prof	file	Cyclic Synchronous Velocity Mode Cyclic Synchronous Torque Mode Touch Probe Function										
Display		One 7-segment LED										
Indicator Lamps		CHARGE, POWER, RUN, SYS, ERR, L/A IN, L/A OUT										
Regenerative Pro	cessing											
Protective Functions Overcurrent, Overvoltage, Undervoltage, Over					ge, Overl	oad, Rege	neration I	Error, Ove	rspeed,			
Utility Functions		Alarm history, Jogging, Load inertia identification, Auto-Tuning, etc.										
Distributed Clocks Slave Information Interface CiA402 Drive Profile Display Indicator Lamps Regenerative Processing Protective Functions Utility Functions		Accordin	g to IEC 6	31800-5-2	. Cat.4, Pl	e accord	ing to ISO	13849-1,				
oute forque Off		SIL3 acc	ording to	IEC 61508	B, IEC 620	61.						

DX4 200V Servo Solutions

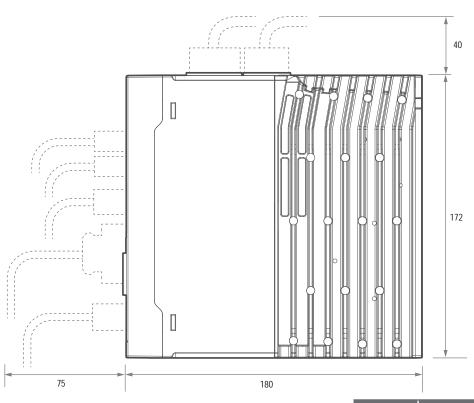
TRIO MOTION TECHNOLOGY

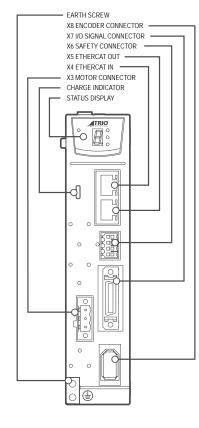
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Dimensions



DX4-130A





DX4-1A5A DX4-108A DX4-101A DX4-102A DX4-115A

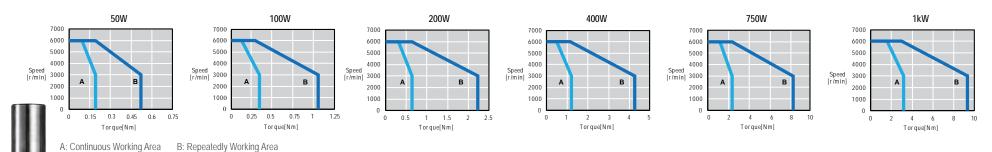
DX4-104A

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 : Volta	age = 200V ac			

MXL Motors



Low Inertia High Speed (MXL) Servo Motors





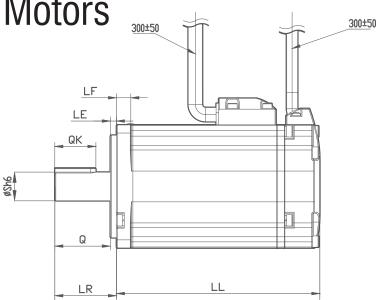
- Choose motor to match the load and dynamics, inertia, brake / no brake
- 20-bit Incremental or 23-bit Absolute high performance encoders
- IP65 rated
- Oil seal as standard
- 200V ac supply Voltage

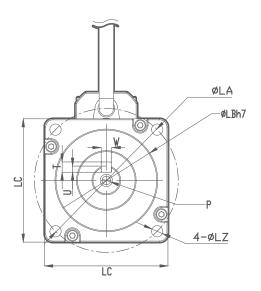
Servo	Motor Detail	50W	100W	200W	400W	750W	1kW					
Rated Output	kW	0.05	0.1	0.2	0.4	0.75	1					
Rated Torque	N⋅m	0.159	0.318	0.63	1.27	2.39	3.18					
Instantaneous Peak Torque	N·m	0.557	1.11	2.21	4.45	8.37	9.55					
Rated Current	Arms	0.9	1.1	1.5	2.9	5.1	6.9					
Instantaneous Max current	Arms	3.3	4.0	5.8	11.5	19.5	21.0					
Rated Speed	r/min		3000									
Max. Speed	r/min				600	00						
Rotor Moment of Interia	×10 ⁻⁴ kg·m²	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 V	'oltage			DC24	V±10%							
Brake Rated Power	W	4.	.0	7.	4	9.6						
Brake Rated Torque	Nm	0.	32	1.	5	3	3.2					
Encode	·r		20-bit Incrementa	I Encoder 1048576 P/R;	23-bit Absolute Encoder	8388608P/R						
Insulation (Class			F								
Ambient Temp	erature			0 ~ +40°C (No	freezing)							
Ambient Hu	midity			20%~80% RH (No	condensing)							
Vibratio	n		Vibration: Dyn	amic ≤49m/s² 5G; Statio	c ≤24.5m/s²; Shock:≤98n	n/s²(10G)						
Enclosu	re		•	Totally Enclosed, Sel	f-cooled, IP65							



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









DOWED	NAVI					F	lange	Side				Threaded			Key		
POWER	MXL-		LL	LR	LE	LF	LC	LA	LB	LZ	5	hole x Depth	QK	W	Т	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.





Ra	ited Power
A5	50W
01	100W
02	200W
04	400W
80	750W
10	1kW

Su	ppy Voltage
Α	200VAC
	200 VAC

Flange							
04	40mm						
06	60mm						
80	80mm						

	Revision
Α	-

ı		Shaft End	
	2	With key	

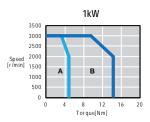
Option Parts		
2	With oil seal	
4	With oil seal With brake	

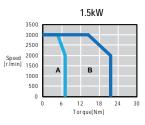
MXMMotors

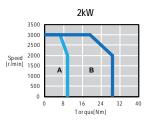


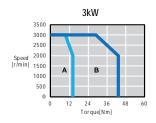
Medium Inertia Medium Speed (MXM) Servo Motors











- 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

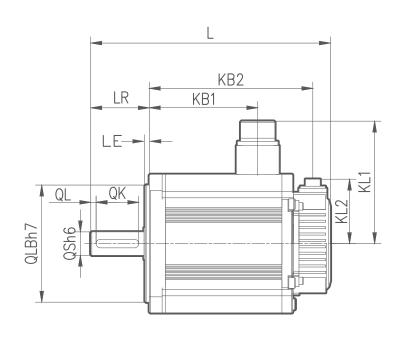
Servo Motor Detail		1kW	1.5kW	2kW	3kW	
Rated Output	kW	1.0	1.5	2.0	3.0	
Rated Torque	N-m	4.78	7.16	9.55	14.3	
Instantaneous Peak Torque	N⋅m	14.3	21.5	28.7	40	
Rated Current	Arms	5.8	8.2	11.3	18.0	
Instantaneous Max current	Arms	17.4	24.6	33.9	54.0	
Rated Speed	r/min		20	00		
Max. Speed	r/min		30	00		
Rotor Moment of Interia	×10 ⁻⁴ kg·m²	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±10%				
Brake Rated Power	W	19.5			35	
Brake Rated Torque	N-m		12		40	
Encod	der	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/s²				
Enclosure		Self-cooled,IP65 (excluding Connecting Joint With Cable)				

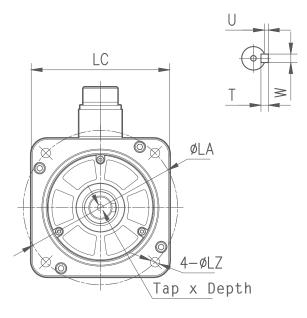
Note: The data inside parenthesis represents the values with brake.

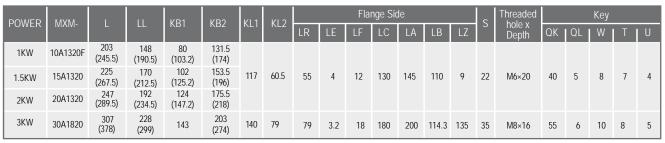


MXMMotors











Note: Numbers inside parentheses represents the values with brake.

MXM



Rated Power				
10	1kW			
15	1.5kW			
20	2kW			
30	3kW			

Su	рру	Voltage
Α		200VAC

Flange			
13	130mm		
18	180mm		

Ra	ated Speed
20	2000 RPM

Encoder		
F	20-bit inc	
L	23-bit abs	

Revision			
Α	-		
В	-		
D	-		

	Shaft End				
2	With key				

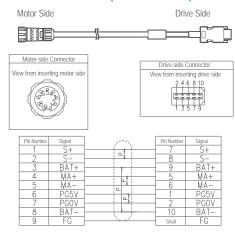
Op	otion Parts
2	With oil seal
4	With oil seal With brake

Connector Type
3 On motor

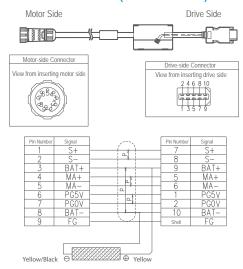
CABLESEncoder Cables

MXL Motors (50W - 1kW)

EC3S-I1724-XX (Inc Encoder)

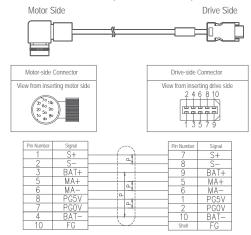


EC3S-A1724-XX (Abs Encoder)

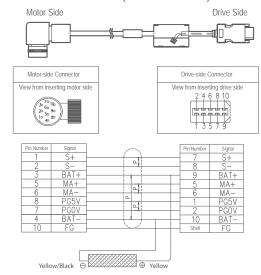


MXM Motors (1kW - 2kW)

EC3S-I1324-XX (Inc Encoder)



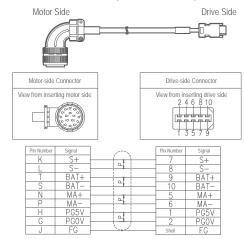
EC3S-A1324-XX (Abs Encoder)



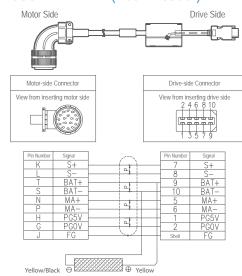
MXM Motors (3kW)

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EC3S-I1424-XX (Inc Encoder)



EC3S-A1424-XX (Abs Encoder)

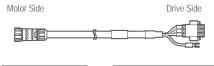


CABLES Power Cables



MXL Motors (50W - 1kW)

EC3P-N1718-XX (No Brake)

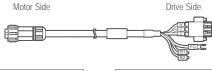




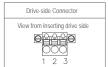


Pin Number	Signal	Pin Number	Signal
1	U	1	U
2	V	2	V
3	W	3	W
4	FG	 Crimp Terminal	FG

EC3P-B1718-XX (With Brake)



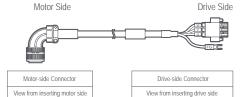




Pin Number	Signal	Pin Number	Signal
1	U	1	U
2	V	2	V
3	W	 3	W
4	FG	 Crimp Terminal	FG
5	B1	 5	B1
6	R2	6	R2

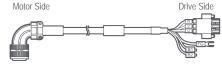
MXM Motors (1kW - 1.5kW) | MXM Motors (2kW)

EC3P-N1314-XX (No Brake)



Pin Number	Signal		Pin Number	Signal
В	U		1	U
	V		2	V
F	W		3	W
С	FG		Crimp Terminal	FG
D	FG	Shorting Stub Cabl	- DI/D1 F2	

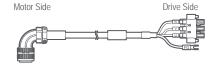
EC3P-B1314-XX (With Brake)





Pin Number	Signal		Pin Number	Signal
В	U		1	U
	V		2	V
F	W		3	W
С	FG		Crimp Terminal	FG
D	FG	Shorting Stub, Cable BVR1.5mm²		
G	B1			B1
Н	B2			B2

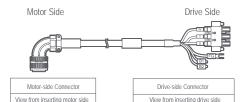
EC3P-N2314-XX (No Brake)





Pin Number	Signal		Pin Number	Signal
В	U		- 1	U
	V		- 2	V
F	W		- 3	W
С	FG		Crimp Terminal	FG
D	FG	Shorting Stub, Ca	ble DVD1 Cores	

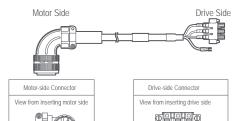
EC3P-B2314-XX (With Brake)





MXM Motors (3kW)

EC3P-N2413-XX



Pin Number	Signal	Pin Number	Signal
Α	U	1	U
В	V	2	V
С	W	3	W
D	FG	Crimp Terminal	FG

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

TRIO MOTION TECHNOLOGY

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Part Numbers

	Drive		Motor		Encoder Cable		Power Cable		
Description	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	D0106	DA4-IASAJA	M0759	MXL-A5A0430LA242	X0107 (abs)	EC3S-A1724-xx (abs)	X0149	EC3P-B1718-xx	
100W, Low Inertia, 23-bit Abs Encoder, No brake	D0107*	DV4 4044 IA	M0756	MXL-01A0430LA222	X0106 (inc)	EC3S-I1724-xx (inc)	X0148	EC3P-N1718-xx	
100W, Low Inertia, 23-bit Abs Encoder, With brake	D0107*	DX4-101AJA	M0757	MXL-01A0430LA242	X0107 (abs)	EC3S-A1724-xx (abs)	X0149	EC3P-B1718-xx	
200W, Low Inertia, 20-bit Inc Encoder, No brake			M0652	MXL-02A0630FA222	X0106	EC3S-I1724-xx	X0148	EC3P-N1718-xx	
200W, Low Inertia, 20-bit Inc Encoder, With brake	D0104	10.4 DV4 400A IA	M0653	MXL-02A0630FA242	V0100	EC33-11724-XX	X0149	EC3P-B1718-xx	
200W, Low Inertia, 23-bit Abs Encoder, No brake	D0106	D0100	DX4-102AJA	M0654	MXL-02A0630LA222	X0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx
200W, Low Inertia, 23-bit Abs Encoder, With brake			M0655	MXL-02A0630LA242	X0107	LC33-N1724-XX	X0149	EC3P-B1718-xx	
400W, Low Inertia, 20-bit Inc Encoder, No brake			M0644	MXL-04A0630FA222	X0106	FC3S-I1724-xx	X0148	EC3P-N1718-xx	
400W, Low Inertia, 20-bit Inc Encoder, With brake		DO10E	D0105	D0105 DX4-104AJA	M0645	MXL-04A0630FA242	V0100	LC33-11/24-XX	X0149
400W, Low Inertia, 23-bit Abs Encoder, No brake	טווטט	DA4-104AJA	M0646	MXL-04A0630LA222	V0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx	
400W, Low Inertia, 23-bit Abs Encoder, With brake			M0647	MXL-04A0630LA242	X0107	EC33-A1724-XX	X0149	EC3P-B1718-xx	
750W, Low Inertia, 20-bit Inc Encoder, No brake			M0636	MXL-08A0830FA222	X0106	EC3S-I1724-xx	X0148	EC3P-N1718-xx	
750W, Low Inertia, 20-bit Inc Encoder, With brake	2040	DX4-108AJA	M0637	MXL-08A0830FA242	V0100	EC33-11724-XX	X0149	EC3P-B1718-xx	
750W, Low Inertia, 23-bit Abs Encoder, No brake	D0104	DA4-100AJA	M0638	MXL-08A0830LA222	V0107	EC3S-A1724-xx	X0148	EC3P-N1718-xx	
750W, Low Inertia, 23-bit Abs Encoder, With brake			M0639	MXL-08A0830LA242	X0107	EC35-A1724-XX	X0149	EC3P-B1718-xx	
1kW, Low Inertia, 20-bit Inc Encoder, No brake	D0102	D0102 DV4 4404 IA	M0628	MXL-10A0830FA222	X0106	FC2C 11724 vv	X0148	EC3P-N1718-xx	
1kW, Low Inertia, 20-bit Inc Encoder, With brake			M0629	MXL-10A0830FA242		EC3S-I1724-xx	X0149	EC3P-B1718-xx	
1kW, Low Inertia, 23-bit Abs Encoder, No brake	D0103	DX4-110AJA	M0630	MXL-10A0830LA222	V0107	EC25 A1724	X0148	EC3P-N1718-xx	
1kW, Low Inertia, 23-bit Abs Encoder, With brake			M0631	MXL-10A0830LA242	X0107	EC3S-A1724-xx	X0149	EC3P-B1718-xx	

	Drive		Motor		Encoder Cable		Power Cable		
Description	Part No.	Model	Part No.	Model	Part No.	Model	Part No.	Model	
1kW, Med Inertia, 20-bit Inc Encoder, No brake			M0620	MXM-10A1320FD223	V0100	E000 11004	X0144	EC3P-N1314-xx	
1kW, Med Inertia, 20-bit Inc Encoder, With brake	D0100	DV4 4404 IA	M0621	MXM-10A1320FD243	X0102	EC3S-I1324-xx	X0145	EC3P-B1314-xx	
1kW, Med Inertia, 23-bit Abs Encoder, No brake	D0103	DX4-110AJA	M0622	MXM-10A1320LB223			X0144	EC3P-N1314-xx	
1kW, Med Inertia, 23-bit Abs Encoder, With brake			M0623	MXM-10A1320LB243	X0103	EC3S-A1324-xx	X0145	EC3P-B1314-xx	
1.5kW, Med Inertia, 20-bit Inc Encoder, No brake	D0102		M0612	MXM-15A1320FD223	V0100	EC3S-I1324-xx	X0144	EC3P-N1314-xx	
1.5kW, Med Inertia, 20-bit Inc Encoder, With brake		DX4-115AJA	M0613	MXM-15A1320FD243	X0102	EC33-11324-XX	X0145	EC3P-B1314-xx	
1.5kW, Med Inertia, 23-bit Abs Encoder, No brake		D0102	0102 DA4-113AJA	M0614	MXM-15A1320LB223	V0102	FC3S-A1324-xx	X0144	EC3P-N1314-xx
1.5kW, Med Inertia, 23-bit Abs Encoder, With brake					M0615	MXM-15A1320LB243	X0103	EU35-A1324-XX	X0145
2kW, Med Inertia, 20-bit Inc Encoder, No brake			M0604	MXM-20A1320FD223	X0102	EC3S-I1324-xx	X0142	EC3P-N2314-xx	
2kW, Med Inertia, 20-bit Inc Encoder, With brake	50404		M0605	MXM-20A1320FD243	XU102	EC35-11324-XX	X0143	EC3P-B2314-xx	
2kW, Med Inertia, 23-bit Abs Encoder, No brake	D0101	DX4-120AJA	M0606	MXM-20A1320LB223	X0103	EC3S-A1324-xx	X0142	EC3P-N2314-xx	
2kW, Med Inertia, 23-bit Abs Encoder, With brake			M0607	MXM-20A1320LB243	X0103	EU35-A1324-XX	X0143	EC3P-B2314-xx	
3kW, Med Inertia, 20-bit Inc Encoder, No brake			M0600	MXM-30A1820FD223	V0400	E000 11404	X0141	EC3P-N2413-xx	
3kW, Med Inertia, 20-bit Inc Encoder, With brake	D0100	50400	DV4 4204 IA	M0601	MXM-30A1820FD243	X0100	EC3S-I1424-xx	X0141	EC3P-N2413-xx
3kW, Med Inertia, 23-bit Abs Encoder, No brake		DX4-130AJA	M0602	MXM-30A1820LA223	X0101	EC3S-A1424-xx	X0141	EC3P-N2413-xx	
3kW, Med Inertia, 23-bit Abs Encoder, With brake		G	M0603	MXM-30A1820LA243		LU33-A1424-XX	X0141	EC3P-N2413-xx	

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

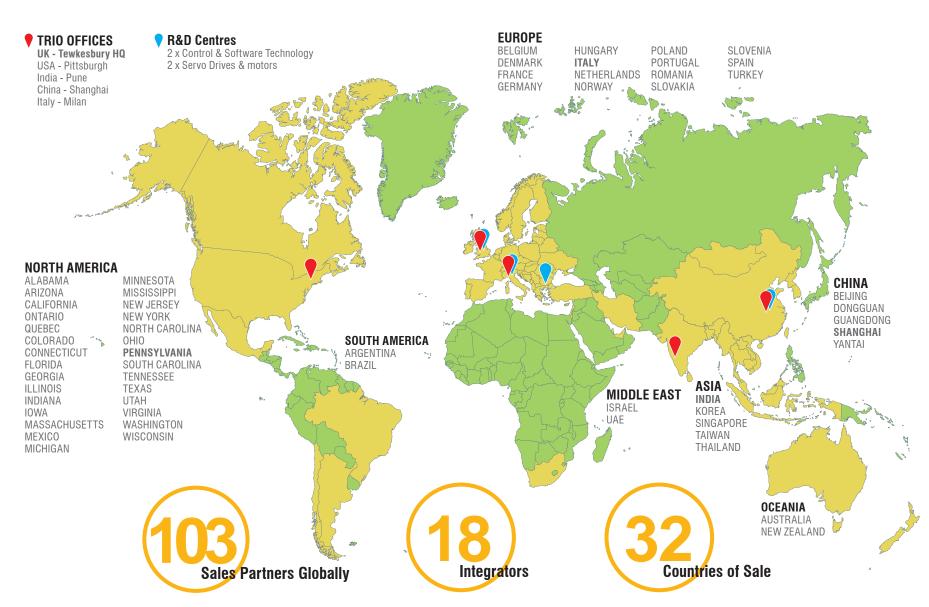






TRIOWorldwide Network







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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