

Our innovation is driven by your ongoing challenges.

The relentless demand for productivity in every aspect of your operation has impelled us to develop a soft starter that delivers unsurpassed efficiency, right from the start.

The new EMX4 soft starter helps ensure enhanced productivity of your operation. The EMX4 doesn't just start and stop your machinery with precision and efficiency, it also helps you minimise energy costs and improve operational effectiveness through the delivery of meaningful data to both operators and plant automation systems.

AuCom develops motor control solutions for a range of industrial applications across the world. Our specialised focus on the research, development and engineering of innovative customised solutions ensures that when you choose to work with AuCom, you're working with a global leader.

Like its predecessor, the EMX4 soft starter sets new standards for soft start technology.

EMX4 is not only smaller, more powerful and packed with new control and protection features, it also introduces the gamechanging Smart Card capability. Fitting a Smart Card to the EMX4 transforms it from super smart motor controller to complete system controller.

This is truly a starter for the future.





Why not make life easier?

Smart does not have to mean complex. While the EMX4 offers more functionality than ever before, it has been designed to make your life easier. By enhancing the display and connectivity functions, and making them intuitive, it is easier to access the right information when you need it, enhancing your overall efficiency.

We have designed the user experience to include a comprehensive graphical display, quick setup menus and multiple languages.

It is also easier to connect with other devices and support services. Connectivity has been enhanced with a suite of communication cards to enable network connections and increase accessibility.

The new USB port allows straightforward upload, download and storage of starter performance information, increasing your ability to manage the system effectively.

Scheduling and automation features enable you to tailor operations to meet your site requirements, minimising manual intervention and ensuring continued operation.

The EMX4 includes starter, motor and system protection functions, complete with alarms to alert you to any potential issues. In the event that the worst does happen, Power Through and Emergency Run functions give you the power to choose to keep running.

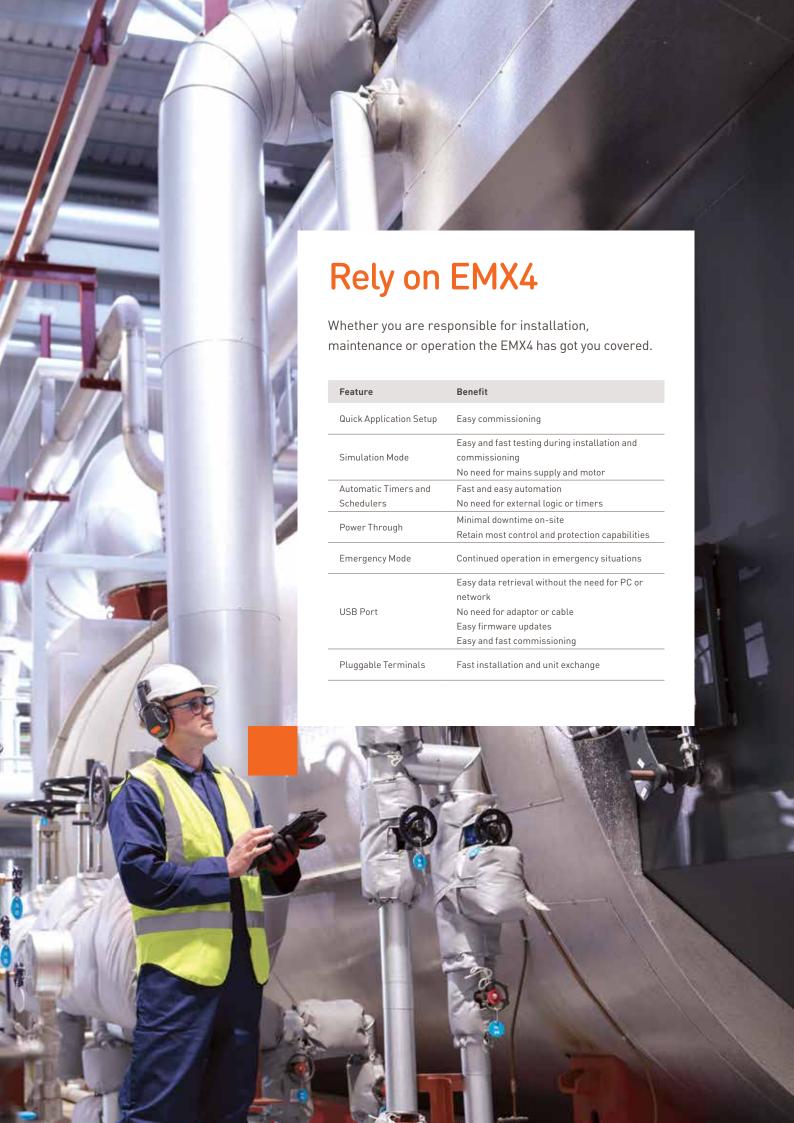
Troubleshooting starting and stopping issues is now easier than ever with the AuCom Pocket Technician app. Easily retrieve useful data from any EMX4 soft starter, including starter model, status, and details of the last three trip events. View the data on-site and diagnose issues in the field, or share it with your local support team for further assistance - all at the push of a button.



Useful operational and event logs



Try it yourself! Download the app on iOS or Android and scan the QR code above.



Now you can start smart

The EMX4 Smart Card redefines the role of a soft starter. With the appropriate Smart Card installed the EMX4 is able to operate as an entire system controller.

Smart Cards deliver industry or application specific functionality and are easily inserted into the EMX4, simplifying system design, installation and set-up.

By transforming your EMX4 with an industry specific Smart Card, your system can be purpose-built around one central point of intelligent control and communications.

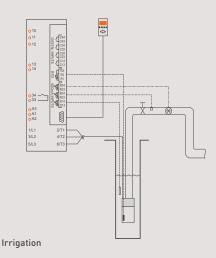
Utilising this technology will improve overall efficiency of your system, and put you firmly in control.

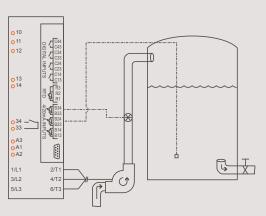




START PUMPING SMART

Installing the Pumping Smart Card allows applicable sensors to be directly connected to the EMX4. This removes the need for extra components normally required to provide this level of specific information and control for your system.





Water Utility Application

The EMX4 Smart Card release program is ongoing. Go to www.aucom.com for available Smart Cards and the opportunity to suggest a development for application or industry.

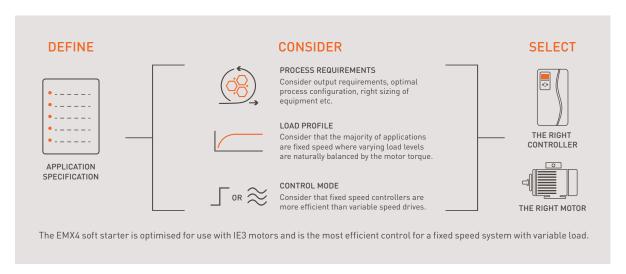


Efficiency starts with us



GET IT RIGHT FROM THE START

Design of energy efficient systems requires consideration of the system as a whole. Using energy efficient components is important but selection of the correct motor control mode (fixed or variable speed) is also critical. Approximately 80% of motor applications are most efficiently operated at a fixed speed. Using a variable speed drive (VSD) with such a system is hugely inefficient, regardless of the efficiency of the motor you are running.



EMX4 - THE MOST ENERGY EFFICIENT OUTCOME FOR FIXED SPEED APPLICATIONS Internal bypass makes EMX4 Soft Starters 99.5% efficient 99.5% when running. Compared to a misapplied drive the 99.5% efficiency of 80% EMX4 equates to around an Reduction in wasted energy 80% reduction in waste energy. EMX4 produces no harmonics during run, improving overall power quality and eliminating system losses resulting from harmonics.

IE3 CAPABLE

The use of IE3 motors offers the opportunity to maximise efficiency and save on operating costs, however there can be issues associated with starting these type of motors, including:

- Higher inrush and starting currents that stress electrical supply circuits.
- 'Spiky' pullout torque curves can make smooth control more difficult.

We have developed the EMX4 soft starter to be an ideal partner for running IE3 motors.

Our innovative XLR-8 adaptive acceleration technology auto-tunes for the connected motor (IE2 or IE3) and gives you precise control over the acceleration and deceleration of your motor without any of the downsides.



Features and options

Motor CONTROL Motor sets 1 2 Constant current and current ramp start • • • • • • • • • • • • • • • • • • •	Feature Sets	EMX4e	EMX4i
Constant current and current ramp start Adaptive control starting/stopping Kickstart Coast to stop and TVR stop DC brake Soft brake Jog (forward and reverse) Inside delta (6 wire) control Soft trip Pump clean Reversing contactor control MOTOR PROTECTION Motor thermistor Current imbalance Under/Overcurrent Under/Overcurrent Under/Overvoltage Under/Overpower (dry pump protection) Phase loss Power loss Starts per hour limiting Restart delay (pump back spin delay) INTEGRATION AND MANAGEMENT Multi-language graphical display Configurable display screen I/O and network expansion options USB port and data logging Analog output Emergency run Voltage measurement SCR fail PowerThrough operation Daily on/off scheduling Runtimer mode (on/off cycle timer) •	MOTOR CONTROL		
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SCR fail PowerThrough operation Daily on/off scheduling Run timer mode (on/off cycle timer) •	Emergency run	•	•
Daily on/off scheduling Run timer mode (on/off cycle timer) •	Voltage measurement		•
Run timer mode (on/off cycle timer) •	SCR fail PowerThrough operation		•
<u> </u>	Daily on/off scheduling		•
Run simulation • •	Run timer mode (on/off cycle timer)		•
	Run simulation	•	•



XLR-8 ACCELERATION CONTROL

Torque or current control start modes influence acceleration but only XLR-8 puts you in direct control of ramp profiles and start times.

Select a ramp profile and time then let the EMX4 do the rest. XLR-8 technology auto-tunes for the connected motor and load conditions to deliver the specified performance.

Feature Sets	EMX4e	EMX4i
COMMUNICATIONS OPTIONS		
Modbus RTU	•	•
Profibus	•	•
DeviceNet	•	•
Modbus TCP	•	•
Profinet	•	•
Ethernet/IP	•	•
SMART CARD OPTIONS		
Pumping Smart Card	•	•
ACCESSORIES		
Remote Keypad	•	•



The future starts with AuCom

We develop motor control products for industrial applications across the world. Our focus on research and development, as well as manufacturing, supply and support, ensures that when you choose to work with AuCom, you're working with a global leader. Forty years of experience added to our expertise and ability means you can rely on us to get it right from the start.

OUR APPROACH

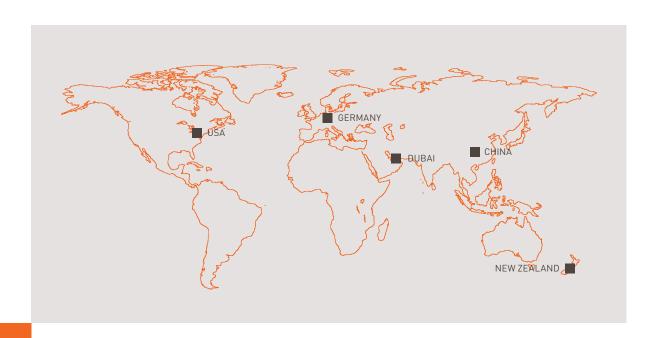
We start with a challenge or application, working with you to define and develop a solution that's not only fit for purpose today, but fully supported into tomorrow.

OUR PARTNERS

We choose partners that are experts, not only in soft start and motor control, but in understanding the needs of their industry. We work closely with our partners to ensure customers receive only the best support and advice.

OUR PEOPLE

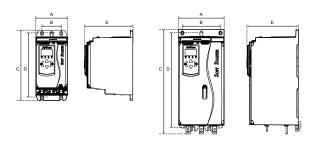
The power behind our success doesn't rely on our innovative products alone. Our people play a pivotal role. That's why, with AuCom, it's always personal. Combining dedication and experience with ability and passion, we don't just listen more closely, we draw on the breadth of our expertise to better understand your unique requirements and offer real solutions and ongoing support.





EMX4 specifications

DIMENSIONS AND WEIGHTS



	Width mm (inch)			nt mm ch)	Depth mm (inch)	Weight kg
	Α	В	С	D	Е	(lb)
EMX4-0024B						4.8
EMX4-0042B						(10.7)
EMX4-0052B						
EMX4-0064B	152	92	336	307	231	4.9 (10.9)
EMX4-0069B	(6.0)	[3.6]	[13.2]	[12.1]	(9.1)	(10.7)
EMX4-0105B						
EMX4-0115B						5.5 (12.1)
EMX4-0135B						(12.1)
EMX4-0184B						
EMX4-0200B			495			12.7
EMX4-0229B			[19.5]			[28.0]
EMX4-0250B		400		150	243	
EMX4-0352B	216	180 (7.1)		450 (17.7)	(9.6)	
EMX4-0397B	(0.3)	(7.1)	500	(17.7)	[7.0]	15.5 (34.2)
EMX4-0410B			523 (20.6)			(34.2)
EMX4-0550B			[20.0]			19.0
EMX4-0580B						[41.9]

CURRENT RATINGS

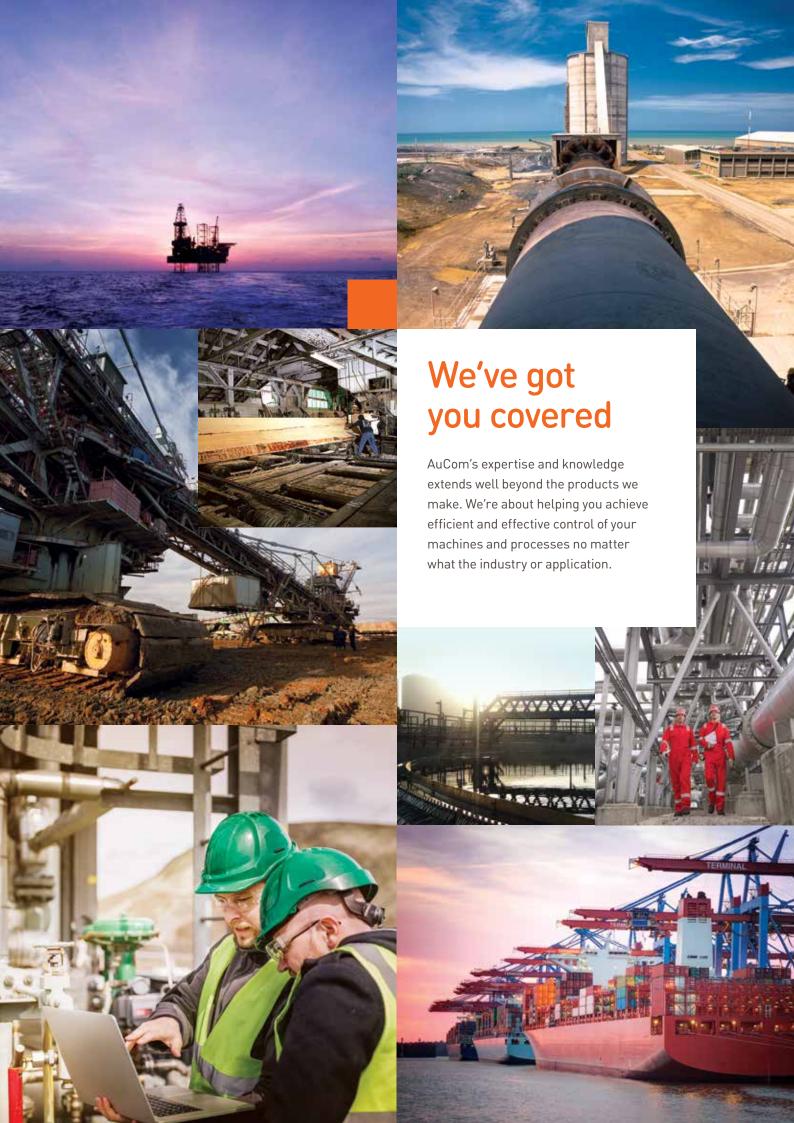
	AC53b 3.0 - 10:350 40°C < 1000m	AC53b 3.5 - 15:345 40°C < 1000m	AC53b 4.0 - 10:350 40°C < 1000m	AC53b 4.0 - 20:340 40°C < 1000m
EMX4-0024B	24	20	19	16
EMX4-0042B	42	34	34	27
EMX4-0052B	52	42	39	35
	AC53b 3.0 - 10:590 40°C < 1000m	AC53b 3.5 - 15:585 40°C < 1000m	AC53b 4.0 - 10:590 40°C < 1000m	AC53b 4.0 - 20:580 40°C < 1000m
EMX4-0064B	64	63	60	51
EMX4-0069B	69	69	69	62
EMX4-0105B	105	86	84	69
EMX4-0115B	115	108	105	86
EMX4-0135B	135	129	126	103
EMX4-0184B	184	144	139	116
EMX4-0200B	200	171	165	138
EMX4-0229B	229	194	187	157
EMX4-0250B	250	244	230	200
EMX4-0352B	352	287	277	234
EMX4-0397B	397	323	311	263
EMX4-0410B	410	410	410	380
EMX4-0550B	550	527	506	427
EMX4-0580B	580	579	555	470

Other solutions

AuCom offers a complete range of soft starters. Whether you need a simple product for starting only, or a comprehensive motor control panel you can trust AuCom to offer a product to match.

	Soft Start	Motor Protection	Advanced Interface	Internal Bypass	Current Range	Voltage Range
CSX	•			•	≤ 200 A	< 575 VAC
CSXi	•	•		•	≤ 200 A	< 575 VAC
ЕМХЗ	•	•	•	•	≤ 2400 A	< 690 VAC
MV Series	•	•	•	•	≤ 800 A *	≤ 15 kV

^{*}Up to 10 kA available on request.



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RIGHT FROM THE START