

Introduction

Benshaw offers a complete range of open chassis, protected chassis and packaged low voltage soft starters ... each designed to meet or exceed specific application requirements.

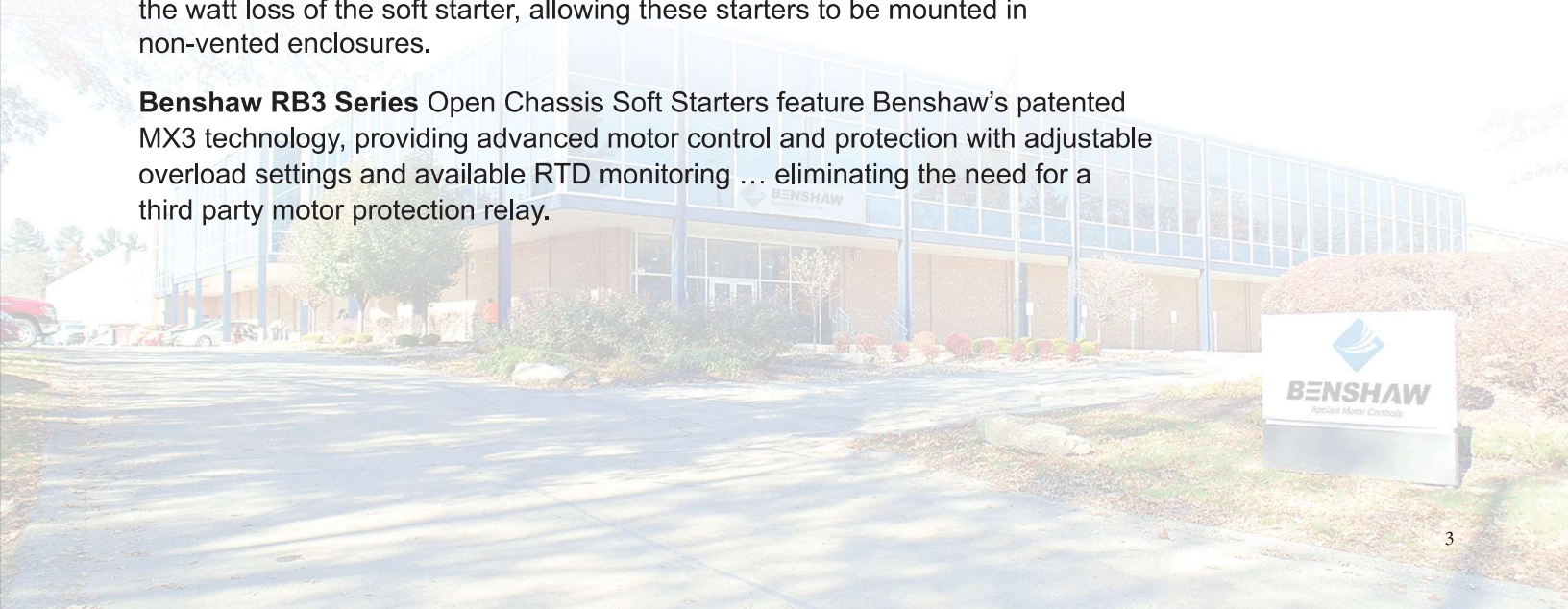
Our standard duty soft starters (CSXi Series) are ideal for a wide range of basic soft start applications. Advanced models provide “Smart Card” flexibility and added protection for standard and heavy duty (EMX4 Series) applications, and our MX2- and MX3-based starters (RB2 and RB3 Series) are well suited for use in a wide range of severe duty applications.

Benshaw CSXi Series Low Voltage Protected Chassis Soft Starters are compact, easy-to-use soft starters with built-in motor protection. CSXi Series soft starters provide greater control for starting and stopping of three phase motors, and, at only 6.5 inches (165mm) deep, are easy to mount in shallow enclosures.

Benshaw EMX4 Series Low Voltage Protected Chassis Soft Starters make it easy to access the right information ... right when you need it. EMX4 Series starters include a comprehensive graphical display, quick setup menus and comprehensive starter/motor/system protection functions, complete with alarms to alert you to any potential issues. For critical must-run applications, Power Through and Emergency Run functions provide the ability to keep running even if you lose one phase.

The **Benshaw RB2 Series** Open Chassis Soft Starter is a compact, simple to use soft starter with built-in motor protection, providing greater control in starting and stopping of three phase motors. The unit’s integral bypass contactor reduces the watt loss of the soft starter, allowing these starters to be mounted in non-vented enclosures.

Benshaw RB3 Series Open Chassis Soft Starters feature Benshaw’s patented MX3 technology, providing advanced motor control and protection with adjustable overload settings and available RTD monitoring ... eliminating the need for a third party motor protection relay.



BENSHAW LINE OF SOFT STARTERS

Benshaw offers a complete range of open chassis and packaged low voltage soft start solutions. Our standard duty soft starters (CSXi Series) are ideal for a wide range of basic soft start applications. Advanced models provide “Smart Card” flexibility and added protection for standard and heavy duty (EMX4 Series) applications, and our MX2 and MX3 motor control technology (RB2 & RB3 Series) for severe duty applications. The following comparison chart details the differences between these offerings:

Low Voltage Soft Starter Comparison

Series	CSXi	EMX4e	EMX4i	RB2	RB3
Features					
HP Range @ 230 Vac	5-75	5-200	5-450	10-350	10-350
HP Range @ 460 Vac	10-150	10-400	10-900	20-1000	20-1000
HP Range @ 575 Vac	15-200	15-500	15-1200	25-1000	20-1000
Control Voltages	110-240Vac	110-240Vac	110-240Vac	120Vac	120Vac
24V Control (optional)	•	•	•		
Run Bypass	•	•	•	•	•
HMI	opt	•	•	opt	•
LCD Keypad Programming	LED opt	•	•	opt	•
Warranty	3yrs	3yrs	3yrs	3yrs	3yrs
USB Interface	opt	std	std	N/A	N/A
Number of Inputs	start/stop only	2	2	3	8
Additional Fixed Inputs for Start/Bypass Confirm	1	1	1	2	2
Number of Outputs	1	2	2	3	6
Additional Outputs for Bypass Control	1	1	1	1	1
RealTime Clock for Data Logging		•	•		•
Event Log		•	•		•
Starts Per Hour Limiter		•	•		•
Time Between Starts Limiter		•	•		•
Zero Speed Switch Input			•		•
Communication Protocols:					
485 Modbus RTU	module	card	card	•	•
DeviceNet	module	card	card	opt	opt
Profibus	module	card	card	opt	opt
Modbus TCP	module	card	card	opt	opt
Ethernet IP	module	card	card	opt	opt
Profinet	module	card	card	N/A	N/A
NEMA/IP rating	≤ 100A = IP20 and ≥100A = IP00	≤ 100A = IP20 and ≥100A = IP00	≤ 100A = IP20 and ≥100A = IP00	Open Chassis	Open Chassis
LED Indicators	•	•	•	•	•

Series	CSXi	EMX4e	EMX4i	RB2	RB3
Standard Duty Rating					
HP Range @ 230 Vac	5-75	5-200	5-450	10-350	10-350
HP Range @ 460 Vac	10-150	10-400	10-900	20-1000	20-1000
HP Range @ 575 Vac	15-200	15-500	15-1200	25-1000	20-1000
Heavy Duty Rating					
HP Range @ 230 Vac	N/A	N/A	3-350	10-250	10-250
HP Range @ 460 Vac	N/A	N/A	10-700	20-1000	20-1000
HP Range @ 575 Vac	N/A	N/A	10-900	25-1000	25-1000
Motor Protection features:					
Current Ramp	•	•	•	•	•
Motor FLA	•	•	•	•	•
Current Limit	•	•	•	•	•
Adjustable Start Ramp Time	1	1	2	1	2
Stop Ramp Time	•	•	•	•	•
Adjustable Motor Trip Class		•	•	•	•
Auxiliary Relay	•	•	•	•	•
Phase Sequence	•	•	•	•	•
Excess Start Time	•	•	•	•	•
Simulation mode		•	•		
Automatic Timers & Schedulers			•		
Adjustable Over/Under Voltage Protection	•	•	•	•	•
Undercurrent Detection	•	•	•	•	•
Current Imbalance Detection	•	•	•	•	•
Instantaneous Electronic Overcurrent Trip	•	•	•	•	•
Residual Ground Fault Detection				•	•
Zero sequence ground fault detection		opt	opt		opt
Alarm Relay Output	•	•	•	•	•
Adjustable Overload Protection	•	•	•	•	•
Overload Lockout	•	•	•	•	•
Under/Over Frequency	•	•	•	•	•
Single-Phase Protection	•	•	•	•	•
Shorted SCR Protection	•	•	•	•	•
Mechanical Jam		•	•	•	•
Resistor Temp. Detector (RTD) Monitoring			opt		opt
Bearing RTD / Other RTD / Open RTD Alarm			opt		opt
SCR Failure Power Through			•		
Current at Stop		•	•		
Shunt Trip Output		•	•		

All low voltage soft starters from Benshaw provide:

- Mission critical reliability
- Patented soft start technology
- Integral digital protection and metering
- 24/7 service and support

EMX4 ADVANCED SOFT STARTER



Smart does not have to mean complex. The EMX4 has been designed to make your life easier with an intuitive display and connectivity functions.

Access the right information when you need it through the comprehensive graphical display and quick setup menus.

The EMX4 includes starter, motor and system protection functions, complete with alarms to alert you to any potential issues.

Optional communication cards enable network connections and the USB port allows straightforward upload, download and storage of starter performance information.

There are two models of EMX4 soft starters available: The EMX4i full featured soft starter with ratings up to 1200A or the “cost optimized” EMX4e model with limited features and ratings (up to 580A).

RELY ON EMX4

Whether you are responsible for installation, maintenance or operation the EMX4 has you covered.

Feature	Benefit
Quick Application Setup	Easy commissioning
Simulation Mode	Easy and fast testing during installation and commissioning No need for line power or motor
Automatic Timers and Schedulers	Fast and easy automation No need for external logic or timers
Emergency Mode	Continued operation in emergency situations
USB Port	Easy data retrieval without the need for PC or network No need for an adaptor or cable Easy firmware updates Easy and fast commissioning
Pluggable Terminals	Fast installation and unit exchange

Guaranteed ... for three full years. *

Only Benschaw has a three year guarantee.

Every Benschaw solid state starter is guaranteed for three full years. Other manufacturers limit their warranties to just one year. But at Benschaw, we believe that because we build them better, we can guarantee them longer.

*Subject to factory authorized startup.



EMX4 ADVANCED SOFT STARTER

Which Starter Do I Need?



EMX4i

- Standard and heavy duty ratings
- 3 starting modes
- 2 stopping modes
- Comprehensive protections
- Multi-language display
- Kickstart
- DC brake and soft brake
- Pump clean
- SCR Failure Power Through
- Daily on/off scheduling

24 - 1250 A

EMX4i Ratings:

230 VAC 5-450 HP
 460 VAC 10-900 HP
 575 VAC 15-1200HP

EMX4e

- Standard duty rating only
- 3 starting modes
- 2 stopping modes
- Comprehensive protections
- Multi-language display

24-580 A

EMX4e Ratings:

230 VAC 5-200 HP
 460 VAC 10-400 HP
 575 VAC 15-500 HP

EMX4 SERIES

ADVANCED DIGITAL SOFT STARTER

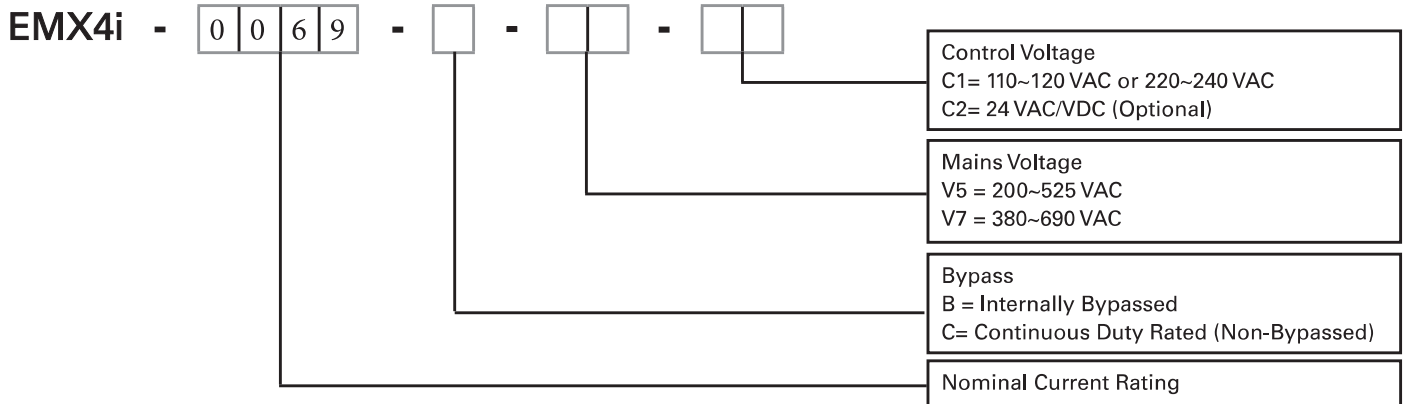
Feature Sets	EMX4e	EMX4i	Feature Sets	EMX4e	EMX4i
MOTOR CONTROL			INTEGRATION AND MANAGEMENT		
Motor Sets	1	2	Multi-Language Graphical Display	√	√
Constant Current & Current Ramp Start		√	Configurable Display Screen	√	√
Adaptive Control Starting/Stopping	√	√	I/O and Network Expansion Options	√	√
Kickstart		√	USB Port and Data Logging	√	√
Coast to Stop & Time Voltage Ramp Stop	√	√	Analog Output	√	√
DC Brake		√	Emergency Mode	√	√
Soft Brake		√	Voltage Measurement		√
Jog (Forward and Reverse)		√	SCR Fail Power Through	√	√
Inside Delta (6 wire) Control		√	Daily On/Off Scheduling		√
Soft Trip		√	Run Simulation	√	√
Pump Clean		√	COMMUNICATION OPTIONS		
Reversing Contactor Control		√	Modbus RTU	√	√
Trip Fail Safe	√	√	Profibus	√	√
MOTOR PROTECTION			Device Net	√	√
Motor Thermistor	√	√	Modbus TCP	√	√
Current Imbalance	√	√	ProfiNET	√	√
Under/Overcurrent	√	√	Ethernet IP	√	√
Under/Overvoltage		√	SMART CARD OPTIONS		
Under/Overpower (Dry Pump Protection)		√	Pumping Smart Card	√	√
Phase Sequence	√	√	ACCESSORIES		
Phase Loss	√	√	Remote HMI	√	√
Power Loss	√	√			
Starts Per Hour Limiting	√	√			
Restart Delay (Pump Backspin Delay)	√	√			
Current At Stop	√	√			
Ground Fault Option	√	√			

All EMX4 chassis units are available to ship immediately from our Pennsylvania warehouse. Check stock or buy online at www.benshaw.com

EMX4i SERIES

ADVANCED CHASSIS SOFT STARTER BUILT-IN BYPASS AND MOTOR PROTECTION

Model Number



Supply

Mains Voltage {L1, L2, L3}	
EMX4i-xxxxB-V5	200~525 VAC {±10%}
EMX4i-xxxxB-V7	380~690 VAC {±10%}
Control Voltage {A1, A2, A3}	
EMX4i-xxxxB-xx-C1 {A1, A2}.....	110~120 VAC {+10%/-15%}, 600 mA
EMX4i-xxxxB-xx-C1 {A2, A3}.....	220~240 VAC {+10%/-15%}, 600 mA
EMX4i-xxxxB-xx-C2 {A1, A2}.....	24 VAC/VDC {±20%}, 2.8 A
Mains Frequency	50 Hz~60Hz {±5 Hz}

Inputs

Input Rating	Active 24 VDC, 8 mA approx
Motor Thermistor {B4, B5}.....	Trip >3.6 kΩ, reset < 1.6 kΩ

Outputs

Relay Outputs.....	10 A @ 250 VAC resistive, 5A @ 250 VAC AC15 pf 0.3
Main Contactor {33,34}.....	Normally Open
Relay Output A {41,42,44}	Changeover
Relay Output B {53,54}.....	Normally Open
Analog Outputs {21,22}	
Maximum Load.....	600 Ω {12 VDC @ 20 mA}
Accuracy.....	±5

Environmental

Operating Temperature.....	-10°C ~ 60°C, above 40 °C with derating
Storage Temperature	-25°C ~ + 60°C
Operating Altitude.....	0~1000 m, above 1000 m with derating
Humidity	5%~95% Relative Humidity
Pollution Degree	Pollution Degree 3
Vibration	IEC 60068-2-6
Protection	
EMX4i-0024B-EMX4i-0135B	IP20
EMX4i-0184B-EMX4i-1250B	IP00

Certification

CCC.....	GB 14048.6
CE	EN 60947-4-2
C-UL	C22.2 N° 60947-4-2
UL.....	UL 60947-4-2
Marine	
Lloyds	Lloyds Marine No 1 Specification
ABS.....	Steel Vessels Rules 2010

EMX4i SERIES



ADVANCED CHASSIS SOFT STARTER BUILT-IN BYPASS AND MOTOR PROTECTION

230 VAC

Model Number	Standard Duty 350%, 30 s, 4 starts per hour		Heavy Duty 450%, 30 s, 4 starts per hour		Dimensions (inches)			Weight (lbs)	List Price
	HP	Max Amps	HP	Max Amps	H	W	D		
EMX4i-0024B-V5-C1-H	5	17	3	14	13.2	6.0	9.1	11	\$1,764
EMX4i-0042B-V5-C1-H	10	28	7.5	22	13.2	6.0	9.1	11	\$1,833
EMX4i-0052B-V5-C1-H	10	35	10	28	13.2	6.0	9.1	11	\$1,892
EMX4i-0064B-V5-C1-H	15	52	10	48	13.2	6.0	9.1	11	\$1,977
EMX4i-0069B-V5-C1-H	20	59	15	46	13.2	6.0	9.1	11	\$2,022
EMX4i-0105B-V5-C1-H	25	77	15	52	13.2	6.0	9.1	12	\$2,428
EMX4i-0115B-V5-C1-H	30	81	20	65	13.2	6.0	9.1	12	\$2,716
EMX4i-0135B-V5-C1-H	30	99	25	77	13.2	6.0	9.1	12	\$3,093
EMX4i-0184B-V5-C1-H	40	124	30	96	19.5	8.5	9.6	28	\$3,405
EMX4i-0200B-V5-C1-H	50	131	40	104	19.5	8.5	9.6	28	\$3,565
EMX4i-0229B-V5-C1-H	60	156	40	124	19.5	8.5	9.6	28	\$3,935
EMX4i-0250B-V5-C1-H	75	195	60	156	19.5	8.5	9.6	28	\$5,260
EMX4i-0397B-V5-C1-H	100	261	75	203	20.6	8.5	9.6	34	\$6,531
EMX4i-0410B-V5-C1-H	150	377	100	302	20.6	8.5	9.6	34	\$7,582
EMX4i-0550B-V5-C1-H	150	414	125	321	20.6	8.5	9.6	42	\$7,934
EMX4i-0580B-V5-C1-H	200	477	150	361	20.6	8.5	9.6	42	\$8,261
EMX4i-0835B-V5-C1-H*	200	515	150	414	24.3	17.6	12.3	112	\$9,632
EMX4i-0940B-V5-C1-H*	200	590	150	480	24.3	17.6	12.3	112	\$11,123
EMX4i-1070B-V5-C1-H*	300	797	250	620	24.3	17.6	12.3	137	\$13,357
EMX4i-1230B-V5-C1-H*	400	985	300	768	24.3	17.6	12.3	139	\$15,259
EMX4i-1250B-V5-C1-H*	450	1180	350	904	24.3	17.6	12.3	143	\$16,682

Continuous Duty rated (Non-Bypassed*)

240 VAC

Model Number	Standard Duty 350%, 30 s, 4 starts per hour		Heavy Duty 450%, 30 s, 4 starts per hour		Dimensions (inches)			Weight (lbs)	List Price
	HP	Max Amps	HP	Max Amps	H	W	D		
EMX4i-0735C-V5-C1-H*	200	480	150	382	24.3	17.6	12.3	104	\$8,174
EMX4i-0830C-V5-C1-H*	200	576	175	431	24.3	17.6	12.3	104	\$8,361
EMX4i-1025C-V5-C1-H*	300	722	200	590	24.3	17.6	12.3	128	\$8,529
EMX4i-1170C-V5-C1-H*	350	864	300	722	24.3	17.6	12.3	130	\$9,099
EMX4i-1220C-V5-C1-H*	400	966	300	784	24.3	17.6	12.3	135	\$12,437

*Refer to EMX4i User Manual for current/HP ratings when using customer supplied, external bypass contactor.

EMX4i SERIES

ADVANCED CHASSIS SOFT STARTER BUILT-IN BYPASS AND MOTOR PROTECTION



460 VAC

Model Number	Standard Duty 350%, 30 s, 4 starts per hour		Heavy Duty 450%, 30 s, 4 starts per hour		Dimensions (inches)			Weight (lbs)	List Price
	HP	Max Amps	HP	Max Amps	H	W	D		
EMX4i-0024B-V5-C1-H	10	17	10	14	13.2	6.0	9.1	11	\$1,764
EMX4i-0042B-V5-C1-H	20	27	15	22	13.2	6.0	9.1	11	\$1,833
EMX4i-0052B-V5-C1-H	25	34	20	28	13.2	6.0	9.1	11	\$1,892
EMX4i-0064B-V5-C1-H	40	52	25	40	13.2	6.0	9.1	11	\$1,977
EMX4i-0069B-V5-C1-H	40	59	30	46	13.2	6.0	9.1	11	\$2,022
EMX4i-0105B-V5-C1-H	60	77	40	52	13.2	6.0	9.1	12	\$2,428
EMX4i-0115B-V5-C1-H	60	81	50	65	13.2	6.0	9.1	12	\$2,716
EMX4i-0135B-V5-C1-H	75	99	60	77	13.2	6.0	9.1	12	\$3,093
EMX4i-0184B-V5-C1-H	100	124	75	96	19.5	8.5	9.6	28	\$3,405
EMX4i-0200B-V5-C1-H	100	131	75	104	19.5	8.5	9.6	28	\$3,565
EMX4i-0229B-V5-C1-H	125	156	100	124	19.5	8.5	9.6	28	\$3,935
EMX4i-0250B-V5-C1-H	150	195	125	156	19.5	8.5	9.6	28	\$5,260
EMX4i-0352B-V5-C1-H	200	240	150	180	20.6	8.5	9.6	34	\$5,874
EMX4i-0397B-V5-C1-H	200	261	150	203	20.6	8.5	9.6	34	\$6,531
EMX4i-0410B-V5-C1-H	300	377	250	302	20.6	8.5	9.6	34	\$7,582
EMX4i-0550B-V5-C1-H	350	414	250	321	20.6	8.5	9.6	42	\$7,934
EMX4i-0580B-V5-C1-H	400	477	300	361	20.6	8.5	9.6	42	\$8,261
EMX4i-0835B-V5-C1-H*	400	515	300	414	24.3	17.6	12.3	112	\$9,632
EMX4i-0940B-V5-C1-H*	450	590	350	480	24.3	17.6	12.3	112	\$11,123
EMX4i-1070B-V5-C1-H*	600	797	500	620	24.3	17.6	12.3	137	\$13,357
EMX4i-1230B-V5-C1-H*	800	985	600	768	24.3	17.6	12.3	139	\$15,259
EMX4i-1250B-V5-C1-H*	900	1180	700	904	24.3	17.6	12.3	143	\$16,682

Continuous Duty rated (Non-Bypassed*)

460 VAC

Model Number	Standard Duty 350%, 30 s, 4 starts per hour		Heavy Duty 450%, 30 s, 4 starts per hour		Dimensions (inches)			Weight (lbs)	List Price
	HP	Max Amps	HP	Max Amps	H	W	D		
EMX4i-0735C-V5-C1-H*	400	480	300	382	24.3	17.6	12.3	104	\$8,174
EMX4i-0830C-V5-C1-H*	450	576	350	431	24.3	17.6	12.3	104	\$8,361
EMX4i-1025C-V5-C1-H*	600	722	500	590	24.3	17.6	12.3	128	\$8,529
EMX4i-1170C-V5-C1-H*	700	864	600	722	24.3	17.6	12.3	130	\$9,099
EMX4i-1220C-V5-C1-H*	800	966	600	784	24.3	17.6	12.3	135	\$12,437

*Refer to EMX4i User Manual for current/HP ratings when using customer supplied, external bypass contactor.

EMX4i SERIES

ADVANCED CHASSIS SOFT STARTER BUILT-IN BYPASS AND MOTOR PROTECTION

575 VAC

Model Number	Standard Duty 350%, 30 s, 4 starts per hour		Heavy Duty 450%, 30 s, 4 starts per hour		Dimensions (inches)			Weight (lbs)	List Price
	HP	Max Amps	HP	Max Amps	H	W	D		
EMX4i-0024B-V7-C1-H	15	17	10	14	13.2	6.0	9.1	11	\$1,816
EMX4i-0042B-V7-C1-H	25	28	20	22	13.2	6.0	9.1	11	\$1,887
EMX4i-0052B-V7-C1-H	30	35	25	28	13.2	6.0	9.1	11	\$1,949
EMX4i-0064B-V7-C1-H	40	52	30	40	13.2	6.0	9.1	11	\$2,037
EMX4i-0069B-V7-C1-H	50	59	40	46	13.2	6.0	9.1	11	\$2,081
EMX4i-0105B-V7-C1-H	60	77	50	52	13.2	6.0	9.1	12	\$2,745
EMX4i-0115B-V7-C1-H	75	81	60	65	13.2	6.0	9.1	12	\$3,067
EMX4i-0135B-V7-C1-H	100	99	75	77	13.2	6.0	9.1	12	\$3,487
EMX4i-0184B-V7-C1-H	100	124	75	96	19.5	8.5	9.6	28	\$3,780
EMX4i-0200B-V7-C1-H	125	131	100	104	19.5	8.5	9.6	28	\$3,944
EMX4i-0229B-V7-C1-H	150	156	100	124	19.5	8.5	9.6	28	\$4,367
EMX4i-0250B-V7-C1-H	200	195	150	156	19.5	8.5	9.6	28	\$5,841
EMX4i-0352B-V7-C1-H	200	240	150	180	20.6	8.5	9.6	34	\$6,285
EMX4i-0397B-V7-C1-H	250	261	200	203	20.6	8.5	9.6	34	\$6,988
EMX4i-0410B-V7-C1-H	350	377	300	302	20.6	8.5	9.6	34	\$8,111
EMX4i-0550B-V7-C1-H	450	414	300	321	20.6	8.5	9.6	42	\$8,253
EMX4i-0580B-V7-C1-H	500	477	350	361	20.6	8.5	9.6	42	\$8,590
EMX4i-0835B-V7-C1-H*	500	515	400	414	24.3	17.6	12.3	112	\$10,137
EMX4i-0940B-V7-C1-H*	600	590	450	480	24.3	17.6	12.3	112	\$11,708
EMX4i-1070B-V7-C1-H*	800	797	600	620	24.3	17.6	12.3	137	\$14,060
EMX4i-1230B-V7-C1-H*	1000	985	800	768	24.3	17.6	12.3	139	\$16,061
EMX4i-1250B-V7-C1-H*	1200	1180	900	904	24.3	17.6	12.3	143	\$17,560

Continuous Duty rated (Non-Bypassed*)

575 VAC

Model Number	Standard Duty 350%, 30 s, 4 starts per hour		Heavy Duty 450%, 30 s, 4 starts per hour		Dimensions (inches)			Weight (lbs)	List Price
	HP	Max Amps	HP	Max Amps	H	W	D		
EMX4i-0735C-V7-C1-H*	500	480	400	382	24.3	17.6	12.3	104	\$8,993
EMX4i-0830C-V7-C1-H*	600	576	450	431	24.3	17.6	12.3	104	\$9,197
EMX4i-1025C-V7-C1-H*	700	722	600	590	24.3	17.6	12.3	128	\$9,384
EMX4i-1170C-V7-C1-H*	900	864	700	722	24.3	17.6	12.3	130	\$10,008
EMX4i-1220C-V7-C1-H*	1000	966	800	784	24.3	17.6	12.3	135	\$13,682

*Refer to EMX4i User Manual for current/HP ratings when using customer supplied, external bypass contactor.

ACCESSORIES

ADD TO YOUR EMX4i AND EMX4e SERIES

Remote keypads for control and monitoring		List Price
KP-PIC-RC-02	Remote Keypad Kit (Keypad, card & cable)	\$529
CV-100018-00	N3R/N4 Remote Keypad Cover (8" x 8")	\$279
Communication interfaces for network integration		List Price
COM-PIC-DN-01	DeviceNet Card, EMX4	\$398
COM-PIC-MB-01	Modbus Card, EMX4	\$301
COM-PIC-PB-01	Profibus Card, EMX4	\$516
COM-PIC-MT-01	Modbus TCP Card, EMX4	\$1,018
COM-PIC-PN-01	Profinet Card, EMX4	\$1,018
COM-PIC-MB-02	Ground Fault + Modbus, RTU Card, EMX4	\$306
COM-PIC-MT-03	Ground Fault + Modbus, TCP Card, EMX4	\$1,052
COM-PIC-PN-03	Ground Fault + Profinet card, EMX4	\$1,052
COM-PIC-EI-03	Ground Fault + Ethernet IP Card, EMX4	\$1,052
3-wire control board option		List Price
BIPC-300200-01	3-wire control board option for wiring customer supplied (external) start/stop/reset pushbuttons, EMX4 with 120VAC control voltage	\$105
BIPC-300200-02	3-wire control board option for wiring customer supplied (external) start/stop/reset pushbuttons, EMX4 with 24VDC control voltage	\$105
Smart Cards		List Price
SCC-PC-01	Smart Card, Pump Application [EMX4]	\$438
IP20 Finger guards for personnel safety		List Price
995-17309-00	Finger Guard kit, (EMX4i/e) 0184B-0580B	\$271
995-22320-00	Finger Guard kit, (EMX4i) 0835B-1250B	\$226
Additional Accessories		List Price
995-18637-00	Cover Remote Tool, EMX4	\$172

