



BENSHAW
Applied Motor Controls



2021 Product Catalog

Low Voltage Solid State Starters

Contact EnerLink for application support in
Alberta, British Columbia, Yukon, and NWT
780-912-1020, hello@enerlinkcorp.com
www.enerlinkcorp.com

Rapid | Rugged | Global



Benshaw's standard products are stocked in warehouses in the USA and Canada... ready for shipment to support your critical needs:

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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
Real Time 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
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
Power Outage Ride Through (PORT)			•		•

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

LOW VOLTAGE SOLID STATE STARTERS

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PACKAGED STARTERS WITH ATL BYPASS

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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. For critical must-run applications, the Power Through and Emergency Run function gives you the ability to keep running even if you lose one phase.

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

There 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).

DEPEND 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
Power Through	Minimal downtime on-site Retain most control and protection capabilities
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 Benshaw has a three year guarantee.

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



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 PowerThrough
- 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

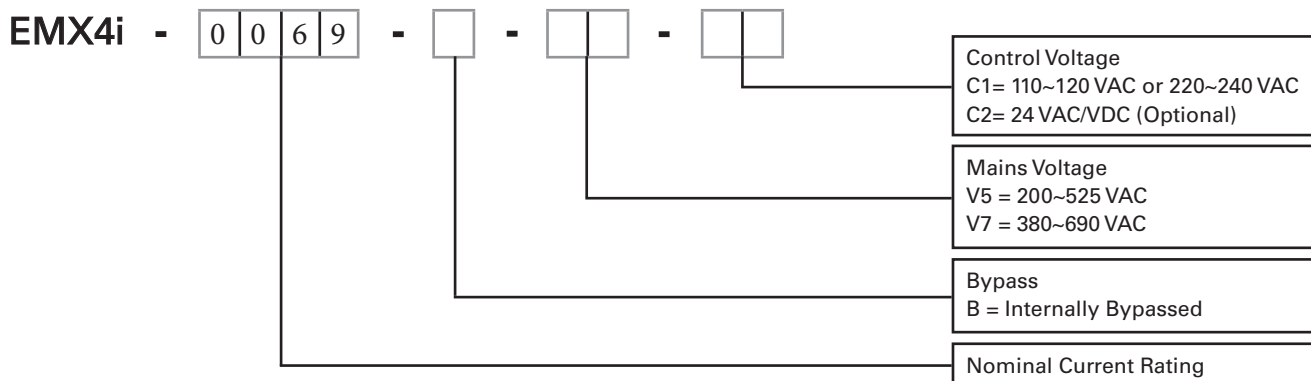
Feature Sets	EMX4e	EMX4i	Feature Sets	EMX4e	EMX4i
MOTOR CONTROL			INTEGRATION AND MANAGEMENT		
Motor Sets	1	2	Multi-Language Graphical Display	√	√
Constant Current & Current Ramp Start		√	Configurable Display Screen		
Adaptive Control Starting/Stopping	√	√	I/O and Network Expansion Options	√	√
Kickstart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

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 UNITS WITH BUILT-IN BYPASS AND MOTOR OVERLOAD

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-0835B-EMX4i-1250B.....	IP00
EMX4i-0184B-EMX4i-0580B.....	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 UNITS WITH BUILT-IN BYPASS AND MOTOR OVERLOAD



230 VAC

Standard Duty 350%, 30 s, 4 starts per hour Heavy Duty 450%, 30 s, 4 starts per hour Dimensions (inches)

Model Number	HP	Max Amps	HP	Max Amps	H	W	D	Weight (lbs)	List Price
EMX4i-0024B-V5-C1-H	5	17	3	14	13.2	6.0	9.1	11	\$1,300
EMX4i-0042B-V5-C1-H	10	28	7.5	22	13.2	6.0	9.1	11	\$1,350
EMX4i-0052B-V5-C1-H	10	35	10	28	13.2	6.0	9.1	11	\$1,395
EMX4i-0064B-V5-C1-H	15	52	10	48	13.2	6.0	9.1	11	\$1,458
EMX4i-0069B-V5-C1-H	20	59	15	46	13.2	6.0	9.1	11	\$1,490
EMX4i-0105B-V5-C1-H	25	77	15	52	13.2	6.0	9.1	12	\$1,790
EMX4i-0115B-V5-C1-H	30	81	20	65	13.2	6.0	9.1	12	\$2,002
EMX4i-0135B-V5-C1-H	30	99	25	77	13.2	6.0	9.1	12	\$2,225
EMX4i-0184B-V5-C1-H	40	124	30	96	19.5	8.5	9.6	28	\$2,510
EMX4i-0200B-V5-C1-H	50	131	40	104	19.5	8.5	9.6	28	\$2,620
EMX4i-0229B-V5-C1-H	60	156	40	124	19.5	8.5	9.6	28	\$2,900
EMX4i-0250B-V5-C1-H	75	195	60	156	19.5	8.5	9.6	28	\$3,878
EMX4i-0397B-V5-C1-H	100	261	75	203	20.6	8.5	9.6	34	\$4,815
EMX4i-0410B-V5-C1-H	150	377	100	302	20.6	8.5	9.6	34	\$5,589
EMX4i-0550B-V5-C1-H	150	414	125	321	20.6	8.5	9.6	42	\$5,850
EMX4i-0580B-V5-C1-H	200	477	150	361	20.6	8.5	9.6	42	\$6,090
EMX4i-0835B-V5-C1-H*	200	501	150	390	24.3	17.6	12.3	112	\$7,100
EMX4i-0940B-V5-C1-H*	200	578	150	450	24.3	17.6	12.3	112	\$8,200
EMX4i-1070B-V5-C1-H*	300	797	250	620	24.3	17.6	12.3	137	\$9,848
EMX4i-1230B-V5-C1-H*	400	985	300	766	24.3	17.6	12.3	139	\$11,250
EMX4i-1250B-V5-C1-H*	450	1162	350	904	24.3	17.6	12.3	143	\$12,299

*Available December 2020.

EMX4i SERIES

ADVANCED CHASSIS UNITS WITH BUILT-IN BYPASS AND MOTOR OVERLOAD



460 VAC

Standard Duty
350%, 30 s, 4 starts per hour

Heavy Duty
450%, 30 s, 4 starts per hour

Dimensions (inches)

Model Number	HP	Max Amps	HP	Max Amps	H	W	D	Weight (lbs)	List Price
EMX4i-0024B-V5-C1-H	10	17	10	14	13.2	6.0	9.1	11	\$1,300
EMX4i-0042B-V5-C1-H	20	27	15	22	13.2	6.0	9.1	11	\$1,350
EMX4i-0052B-V5-C1-H	25	34	20	28	13.2	6.0	9.1	11	\$1,395
EMX4i-0064B-V5-C1-H	40	52	25	40	13.2	6.0	9.1	11	\$1,458
EMX4i-0069B-V5-C1-H	40	59	30	46	13.2	6.0	9.1	11	\$1,490
EMX4i-0105B-V5-C1-H	60	77	40	52	13.2	6.0	9.1	12	\$1,790
EMX4i-0115B-V5-C1-H	60	81	50	65	13.2	6.0	9.1	12	\$2,002
EMX4i-0135B-V5-C1-H	75	99	60	77	13.2	6.0	9.1	12	\$2,225
EMX4i-0184B-V5-C1-H	100	124	75	96	19.5	8.5	9.6	28	\$2,510
EMX4i-0200B-V5-C1-H	100	131	75	104	19.5	8.5	9.6	28	\$2,630
EMX4i-0229B-V5-C1-H	125	156	100	124	19.5	8.5	9.6	28	\$2,900
EMX4i-0250B-V5-C1-H	150	195	125	156	19.5	8.5	9.6	28	\$3,878
EMX4i-0352B-V5-C1-H	200	240	150	180	20.6	8.5	9.6	34	\$4,331
EMX4i-0397B-V5-C1-H	200	261	150	203	20.6	8.5	9.6	34	\$4,815
EMX4i-0410B-V5-C1-H	300	377	250	302	20.6	8.5	9.6	34	\$5,589
EMX4i-0550B-V5-C1-H	350	414	250	321	20.6	8.5	9.6	42	\$5,850
EMX4i-0580B-V5-C1-H	400	477	300	361	20.6	8.5	9.6	42	\$6,090
EMX4i-0835B-V5-C1-H*	400	501	300	390	24.3	17.6	12.3	112	\$7,100
EMX4i-0940B-V5-C1-H*	450	578	350	450	24.3	17.6	12.3	112	\$8,200
EMX4i-1070B-V5-C1-H*	600	797	500	620	24.3	17.6	12.3	137	\$9,848
EMX4i-1230B-V5-C1-H*	800	985	600	766	24.3	17.6	12.3	139	\$11,250
EMX4i-1250B-V5-C1-H*	900	1162	700	904	24.3	17.6	12.3	143	\$12,299

*Available December 2020.

EMX4i SERIES

ADVANCED CHASSIS UNITS WITH BUILT-IN BYPASS AND MOTOR OVERLOAD

575 VAC

Standard Duty Heavy Duty Dimensions (inches)
 350%, 30 s, 4 starts per hour 450%, 30 s, 4 starts per hour

Model Number	HP	Max Amps	HP	Max Amps	H	W	D	Weight (lbs)	List Price
EMX4i-0024B-V7-C1-H	15	17	10	14	13.2	6.0	9.1	11	\$1,339
EMX4i-0042B-V7-C1-H	25	28	20	22	13.2	6.0	9.1	11	\$1,391
EMX4i-0052B-V7-C1-H	30	35	25	28	13.2	6.0	9.1	11	\$1,437
EMX4i-0064B-V7-C1-H	40	52	30	40	13.2	6.0	9.1	11	\$1,502
EMX4i-0069B-V7-C1-H	50	59	40	46	13.2	6.0	9.1	11	\$1,535
EMX4i-0105B-V7-C1-H	60	77	50	52	13.2	6.0	9.1	12	\$2,023
EMX4i-0115B-V7-C1-H	75	81	60	65	13.2	6.0	9.1	12	\$2,262
EMX4i-0135B-V7-C1-H	100	99	75	77	13.2	6.0	9.1	12	\$2,514
EMX4i-0184B-V7-C1-H	100	124	75	96	19.5	8.5	9.6	28	\$2,786
EMX4i-0200B-V7-C1-H	125	131	100	104	19.5	8.5	9.6	28	\$2,908
EMX4i-0229B-V7-C1-H	150	156	100	124	19.5	8.5	9.6	28	\$3,219
EMX4i-0250B-V7-C1-H	200	195	150	156	19.5	8.5	9.6	28	\$4,305
EMX4i-0352B-V7-C1-H	200	240	150	180	20.6	8.5	9.6	34	\$4,634
EMX4i-0397B-V7-C1-H	250	261	200	203	20.6	8.5	9.6	34	\$5,152
EMX4i-0410B-V7-C1-H	350	377	300	302	20.6	8.5	9.6	34	\$5,980
EMX4i-0550B-V7-C1-H	450	414	300	321	20.6	8.5	9.6	42	\$6,084
EMX4i-0580B-V7-C1-H	500	477	350	361	20.6	8.5	9.6	42	\$6,334
EMX4i-0835B-V7-C1-H*	500	501	400	390	24.3	17.6	12.3	112	\$7,474
EMX4i-0940B-V7-C1-H*	600	578	450	450	24.3	17.6	12.3	112	\$8,632
EMX4i-1070B-V7-C1-H*	800	797	600	620	24.3	17.6	12.3	137	\$10,366
EMX4i-1230B-V7-C1-H*	1000	985	800	766	24.3	17.6	12.3	139	\$11,842
EMX4i-1250B-V7-C1-H*	1200	1162	900	904	24.3	17.6	12.3	143	\$12,946

* Available December 2020.

EMX4e SERIES

ECONOMICAL CHASSIS UNITS



230 VAC

Standard Duty
350%, 30 s, 4 starts per hour

Dimensions (inches)

Model Number	HP	Max Amps	H	W	D	Weight (lbs)	List Price
EMX4e-0024B-V5-C1-H	5	17	13.2	6.0	9.1	11	\$1,105
EMX4e-0042B-V5-C1-H	10	28	13.2	6.0	9.1	11	\$1,148
EMX4e-0052B-V5-C1-H	10	35	13.2	6.0	9.1	11	\$1,186
EMX4e-0064B-V5-C1-H	15	52	13.2	6.0	9.1	11	\$1,239
EMX4e-0069B-V5-C1-H	20	59	13.2	6.0	9.1	11	\$1,267
EMX4e-0105B-V5-C1-H	25	77	13.2	6.0	9.1	12	\$1,522
EMX4e-0115B-V5-C1-H	30	81	13.2	6.0	9.1	12	\$1,702
EMX4e-0135B-V5-C1-H	30	99	13.2	6.0	9.1	12	\$1,891
EMX4e-0184B-V5-C1-H	40	124	19.5	8.5	9.6	28	\$2,134
EMX4e-0200B-V5-C1-H	50	131	19.5	8.5	9.6	28	\$2,227
EMX4e-0229B-V5-C1-H	60	156	19.5	8.5	9.6	28	\$2,465
EMX4e-0250B-V5-C1-H	75	195	19.5	8.5	9.6	28	\$3,296
EMX4e-0397B-V5-C1-H	100	261	20.6	8.5	9.6	34	\$4,093
EMX4e-0410B-V5-C1-H	150	377	20.6	8.5	9.6	34	\$4,751
EMX4e-0550B-V5-C1-H	150	414	20.6	8.5	9.6	42	\$4,973
EMX4e-0580B-V5-C1-H	200	477	20.6	8.5	9.6	42	\$5,177

* See comparison of EXM4e and EMX4i on pages 3 and 4.

EMX4e SERIES

ECONOMICAL CHASSIS UNITS



460 VAC

Standard Duty
350%, 30 s, 4 starts per hour

Dimensions (inches)

Model Number	HP	Max Amps	H	W	D	Weight (lbs)	List Price
EMX4e-0024B-V5-C1-H	10	17	13.2	6.0	9.1	11	\$1,105
EMX4e-0042B-V5-C1-H	20	28	13.2	6.0	9.1	11	\$1,148
EMX4e-0052B-V5-C1-H	25	35	13.2	6.0	9.1	11	\$1,186
EMX4e-0064B-V5-C1-H	40	52	13.2	6.0	9.1	11	\$1,239
EMX4e-0069B-V5-C1-H	40	59	13.2	6.0	9.1	11	\$1,267
EMX4e-0105B-V5-C1-H	50	77	13.2	6.0	9.1	12	\$1,522
EMX4e-0115B-V5-C1-H	60	81	13.2	6.0	9.1	12	\$1,702
EMX4e-0135B-V5-C1-H	75	99	13.2	6.0	9.1	12	\$1,891
EMX4e-0184B-V5-C1-H	100	124	19.5	8.5	9.6	28	\$2,134
EMX4e-0200B-V5-C1-H	100	131	19.5	8.5	9.6	28	\$2,227
EMX4e-0229B-V5-C1-H	125	156	19.5	8.5	9.6	28	\$2,465
EMX4e-0250B-V5-C1-H	150	195	19.5	8.5	9.6	28	\$3,296
EMX4e-0352B-V5-C1-H	200	240	20.6	8.5	9.6	34	\$3,681
EMX4e-0397B-V5-C1-H	200	261	20.6	8.5	9.6	34	\$4,093
EMX4e-0410B-V5-C1-H	300	377	20.6	8.5	9.6	34	\$4,751
EMX4e-0550B-V5-C1-H	350	414	20.6	8.5	9.6	42	\$4,973
EMX4e-0580B-V5-C1-H	400	477	20.6	8.5	9.6	42	\$5,177

* See comparison of EXM4e and EMX4i on pages 3 and 4.

EMX4e SERIES

ECONOMICAL CHASSIS UNITS

575 VAC

Standard Duty
350%, 30 s, 4 starts per hour

Dimensions (inches)

Model Number	HP	Max Amps	H	W	D	Weight (lbs)	List Price
EMX4e-0024B-V7-C1-H	15	17	13.2	6.0	9.1	11	\$1,138
EMX4e-0042B-V7-C1-H	25	28	13.2	6.0	9.1	11	\$1,182
EMX4e-0052B-V7-C1-H	30	35	13.2	6.0	9.1	11	\$1,222
EMX4e-0064B-V7-C1-H	40	52	13.2	6.0	9.1	11	\$1,276
EMX4e-0069B-V7-C1-H	50	59	13.2	6.0	9.1	11	\$1,305
EMX4e-0105B-V7-C1-H	60	77	13.2	6.0	9.1	12	\$1,720
EMX4e-0115B-V7-C1-H	75	81	13.2	6.0	9.1	12	\$1,923
EMX4e-0135B-V7-C1-H	100	99	13.2	6.0	9.1	12	\$2,137
EMX4e-0184B-V7-C1-H	100	124	19.5	8.5	9.6	28	\$2,369
EMX4e-0200B-V7-C1-H	125	131	19.5	8.5	9.6	28	\$2,472
EMX4e-0229B-V7-C1-H	150	156	19.5	8.5	9.6	28	\$2,736
EMX4e-0250B-V7-C1-H	200	195	19.5	8.5	9.6	28	\$3,659
EMX4e-0352B-V7-C1-H	200	240	20.6	8.5	9.6	34	\$3,939
EMX4e-0397B-V7-C1-H	250	261	20.6	8.5	9.6	34	\$4,380
EMX4e-0410B-V7-C1-H	350	377	20.6	8.5	9.6	34	\$5,084
EMX4e-0550B-V7-C1-H	450	414	20.6	8.5	9.6	42	\$5,172
EMX4e-0580B-V7-C1-H	500	477	20.6	8.5	9.6	42	\$5,384

* See comparison of EXM4e and EMX4i on pages 3 and 4.

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)
--------------	--

\$390

Communication interfaces for network integration

List Price

COM-PIC-DN-01	DeviceNet Card, EMX4
COM-PIC-MB-01	Modbus Card, EMX4
COM-PIC-PB-01	Profibus Card, EMX4
COM-PIC-MT-01	Modbus TCP Card, EMX4
COM-PIC-PN-01	Profinet Card, EMX4
COM-PIC-EI-01	Ethernet IP Card, EMX4

\$300

\$228

\$390

\$768

\$768

\$768

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
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\$79

BIPC-300200-02	3-wire control board option for wiring customer supplied (external) start/stop/reset pushbuttons, EMX4 with 24VDC control voltage
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\$79

Smart Cards

List Price

SCC-PC-01	Smart Card, Pump Application [EMX4]
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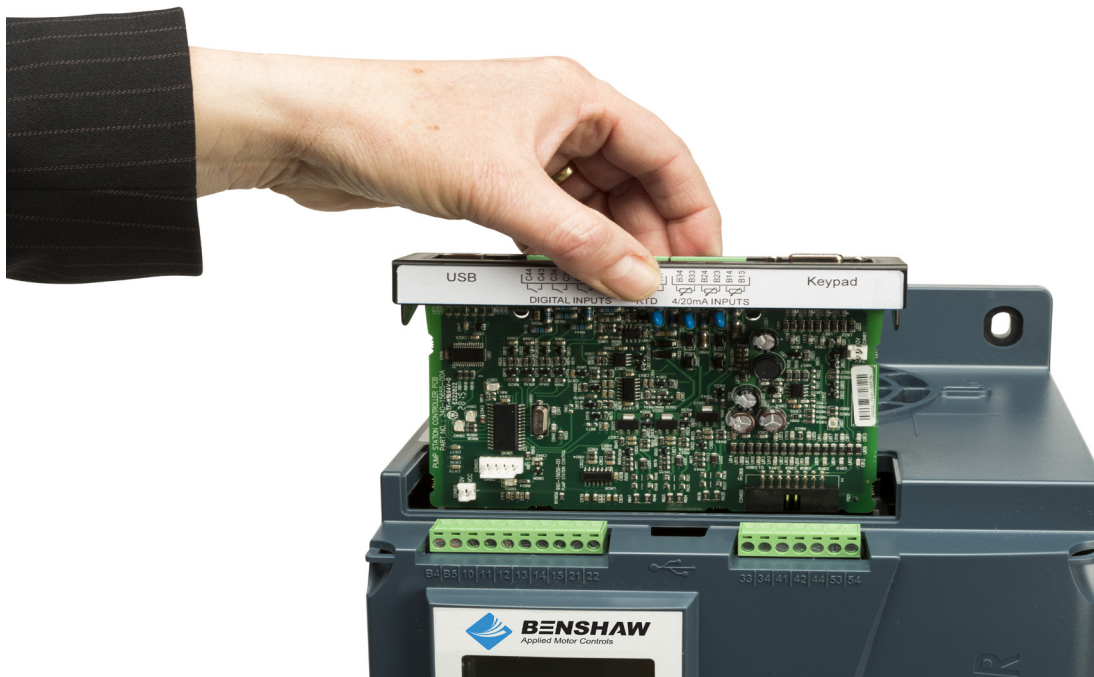
\$330

IP20 Finger guards for personnel safety

List Price

995-17309-00	Finger Guard kit
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\$194



CSXi SERIES



BASIC COMPACT SOFT STARTER

Specifications

General

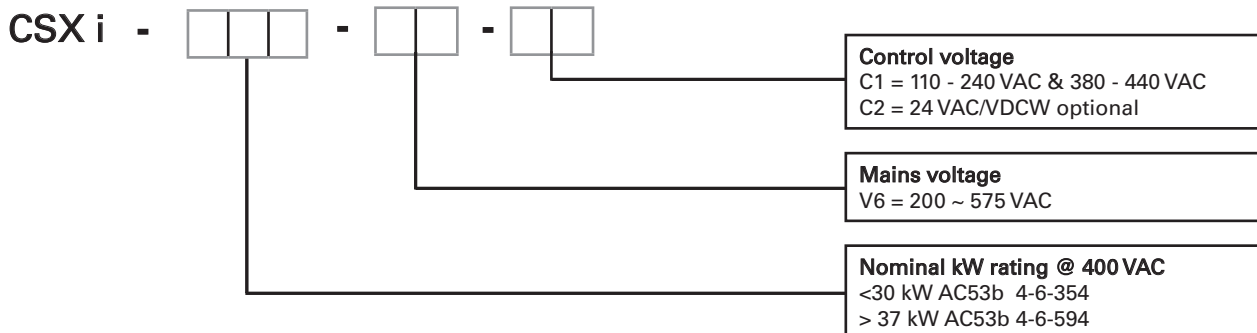
Current range 18 A ~ 200 A (nominal)
 Motor connection Inline
 Bypass Internal

Supply

Mains voltage
 CSXi-xxxx-V6..... 3 x 200 VAC ~ 575 VAC (+10% / -15%)
 Control voltage (A1,A2,A3)
 C1 110 ~ 240 VAC (+10% / -15%)
 or 380 ~ 440 VAC (+10% / -15%)
 C2 24 VAC / 24 VDC (±20%)
 Mains frequency 45 Hz to 66 Hz



Model Number



All CSXi chassis units are available for immediate shipping from our Pennsylvania warehouse.
 Check stock or buy online at www.benshaw.com.

Guaranteed ... for three full years.

Only Benshaw has a three year guarantee.

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



CSXi SERIES

BASIC CHASSIS UNITS WITH BUILT-IN BYPASS AND MOTOR OVERLOAD



Model Number	Standard Duty (HP)			Max Amps		Dimensions (inches)			Weight (lbs)	List Price
	230 VAC	460 VAC	575 VAC	40 °C	50 °C	H	W	D		
CSXi-007-V6-C1	5	10	15	18	17	8.0	3.9	6.5	6	\$615
CSXi-015-V6-C1	10	25	30	34	32	8.0	3.9	6.5	6	\$730
CSXi-018-V6-C1	15	30	40	42	40	8.0	3.9	6.5	6	\$800
CSXi-022-V6-C1	15	30	40	48	44	8.0	3.9	6.5	6	\$850
CSXi-030-V6-C1	20	40	50	60	55	8.0	3.9	6.5	6	\$973
CSXi-037-V6-C1	25	50	60	75	68	8.5	5.7	7.6	10	\$1,380
CSXi-045-V6-C1	30	60	75	85	78	8.5	5.7	7.6	10	\$1,400
CSXi-055-V6-C1	---	75	100	100	100	8.5	5.7	7.6	10	\$1,575
CSXi-075-V6-C1	50	100	125	140	133	9.5	8.0	8.4	15	\$1,980
CSXi-090-V6-C1	60	125	150	170	157	9.5	8.0	8.4	15	\$2,200
CSXi-110-V6-C1	75	150	200	200	186	9.5	8.0	8.4	15	\$2,390

* Ratings are based on 6 second start time at 400% current limit.

For other duty ratings, or for assistance in selecting the correct starter for your application, please contact Benshaw Inc.

ACCESSORIES

ADD TO YOUR CSXi

Remote keypads for control and monitoring

		List Price
KP-PIM-RO-01	CSXi Remote Operator & Interface Kit (complete set)	\$413
KP-PIM-RZ-01	CSXi Remote Operator interface (does not include keypad)	\$175
KP-RCM01	CSXi Remote Operator (keypad only)	\$305
KP-RCM02	CSXi Remote Operator & PT Kit	\$537

Communication interfaces for network integration

		List Price
COM-PIM-DN-01	DeviceNet Interface	\$275
COM-PIM-MB-01	Modbus Interface	\$190
COM-PIM-PB-01	Profibus Interface	\$350
COM-PIM-USB-01	USB Interface	\$175
COM-PIM-MT-01	Modbus TCP Interface	\$650
COM-PIM-PN-01	Profinet Interface	\$800
COM-PIM-EI-01	Ethernet IP Interface	\$708

IP20 Finger guards for personnel safety

		List Price
995-03503-00	Fingerguard Kit, CSXi 075-110	\$209

Communication Interfaces



Finger Guard Kit



Remote Operator



CSXi PUMP PANEL STARTERS



STANDARD ENCLOSED SOFT START PUMP PANELS

STANDARD FEATURES:

- NEMA 3R enclosure
- CSXi solid state starter with built-in bypass
- Circuit breaker with door operator (35kAIC)
- Control power transformer
- Space heater with thermostat
- Start/Stop Pushbutton, HOA, Power On/Run/Fault lights



Model Number	Standard Duty (HP)			Max Amps		CB	Dimensions (inches)			Weight (lbs)	List Price
	230 VAC	460 VAC	575 VAC	40 °C	50 °C		Rating amps	H	W	D	
CSXi-0014-4-PP-N3R-CB-PD	5	10	15	18	17	40	20	16	8	39	\$2,838
CSXi-0034-4-PP-N3R-CB-PD	10	25	30	34	32	60	20	16	8	40	\$3,069
CSXi-0040-4-PP-N3R-CB-PD	15	30	40	42	40	70	20	16	8	42	\$3,132
CSXi-0052-4-PP-N3R-CB-PD	20	40	50	60	55	100	20	16	8	43	\$3,286
CSXi-0065-4-PP-N3R-CB-PD	25	50	60	75	68	125	24	20	10	66	\$3,933
CSXi-0077-4-PP-N3R-CB-PD	30	60	75	85	78	150	24	20	10	67	\$3,958
CSXi-0096-4-PP-N3R-CB-PD	---	75	100	100	100	150	24	20	10	75	\$4,177
CSXi-0125-4-PP-N3R-CB-PD	50	100	125	140	133	200	24	20	10	80	\$4,822
CSXi-0156-4-PP-N3R-CB-PD	60	125	150	170	157	250	24	20	10	86	\$5,097
CSXi-0180-4-PP-N3R-CB-PD	75	150	200	200	186	300	24	20	10	88	\$5,397

Note: These codes are for 480 VAC units. For 230 VAC change [4] to [2]; for 575 VAC change [4] to [5].
 230V and 575V models built to order.

Guaranteed ... for three full years.

Only Benshaw has a three year guarantee.

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



OPEN CHASSIS STARTERS WITH INTEGRAL BYPASS



RB SERIES WITH MX² TECHNOLOGY — (ALSO AVAILABLE WITH MX³ TECHNOLOGY) RUGGED INDUSTRIAL SOLID STATE STARTERS WITH INTEGRAL BYPASS

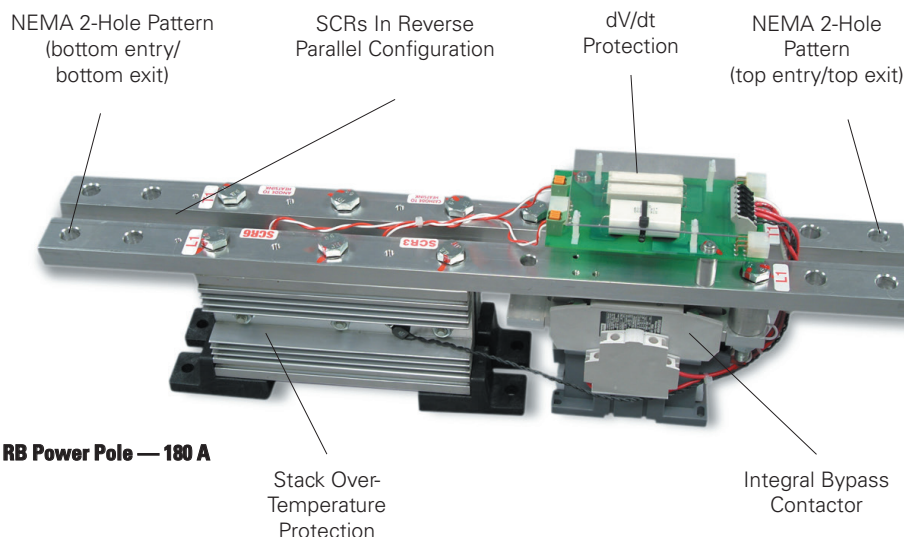
RB SERIES PRODUCT HIGHLIGHTS:

Benshaw's RB series solid state starter combines the high performance MX² or MX³ technology with a rugged, compact, integral bypass RB series power section.

The MX² or MX³ technology provides users with a powerful group of programming parameters, designed for flexibility in across a wide range of industrial applications. Both MX² and MX³ controls provide simple setup and commissioning via the Quick Start Menu.

The RB power section is a rugged, heavy duty solid state starter section designed with integral bypass contactor for a compact, efficient profile. The modular design includes separate poles for each phase for ease of maintenance.

Note: Units require 120V control power



KEY ADVANTAGES:

- Modular power stack assembly for ease of maintenance
- ModBus standard/other Fieldbus optional
- Multiple starting ramps for various applications
- Integrated metering system diagnostics
- Fieldbus
- Ethernet IP/TCP
- Profibus
- DeviceNet
- Integral bypass contactor for efficient operation, eliminating the need for external fans
- Integrated motor protection
- Dual ramp capability for loaded/unloaded applications
- Power stack has multiple ratings for application flexibility

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OPEN CHASSIS STARTERS WITH INTEGRAL BYPASS

RB2 SERIES— PRODUCT SELECTION GUIDE

	RB2 Series Model Number	Horsepower				Dimensions (inches)*			Wgt. (lbs.)	List Price
		208 V	240 V	480 V	575 V	H	W	D		
Standard Duty 350% for 30 sec 115% continuous	RB2-1-S-027A-11C	7.5	10	20	25	14	10	6.9	14	\$1,955
	RB2-1-S-040A-11C	10	15	30	40	14	10	6.9	14	\$2,050
	RB2-1-S-052A-12C	15	20	40	50	14	10	8.4	17	\$2,135
	RB2-1-S-065A-12C	20	25	50	60	14	10	8.4	17	\$2,195
	RB2-1-S-077A-13C	25	30	60	75	15	10	8.4	17	\$2,295
	RB2-1-S-096A-13C	30	40	75	100	15	10	8.9	18	\$2,985
	RB2-1-S-125A-14C	40	50	100	125	21.7	12.3	9	43	\$3,365
	RB2-1-S-156A-14C	50	60	125	150	21.4	14	9	43	\$3,925
	RB2-1-S-180A-14C	60	75	150	200	21.4	14	9	43	\$4,695
	RB2-1-S-240A-15C	75	100	200	250	23.8	12.5	10.3	51	\$5,000
	RB2-1-S-302A-15C	100	125	250	300	23.8	12.5	10.3	51	\$5,500
	RB2-1-S-361A-16C	125	150	300	400	23.9	13.3	9.2	56	\$6,445
	RB2-1-S-414A-17C	150	—	350	—	27.9	18	11.1	151	\$7,050
	RB2-1-S-477A-17C	—	200	400	500	28.9	18	11.1	155	\$7,700
	RB2-1-S-515A-17C	200	—	450	—	28.9	18	11.1	155	\$8,250
	RB2-1-S-590A-18C	—	250	500	600	28.8	18	11.1	159	\$8,800
	RB2-1-S-720A-19C	250	300	600	700	30.7	18.5	10.9	159	\$9,900
	RB2-1-S-838A-20C	300	350	700	800	29.1	26.1	12.5	160	\$11,550
Heavy Duty 500% for 30 sec 125% continuous	RB2-1-S-027A-11C	7.5	10	20	25	14	10	6.9	14	\$1,955
	RB2-1-S-040A-11C	10	15	30	40	14	10	6.9	14	\$2,050
	RB2-1-S-052A-12C	15	20	40	50	14	10	8.4	17	\$2,135
	RB2-1-S-096A-13C	30	40	75	100	15	10	8.4	18	\$2,985
	RB2-1-S-156A-14C	40	50	100	125	21.4	14	9	43	\$3,925
	RB2-1-S-180A-15C	60	75	150	200	21.4	14	9	51	\$5,250
	RB2-1-S-361A-16C	75	100	200	250	23.9	13.3	9.2	56	\$6,445
	RB2-1-S-414A-17C	125	150	300	400	27.9	18	11.1	151	\$7,050
	RB2-1-S-590A-18C	200	200	450	500	28.8	18	11.1	159	\$8,800
	RB2-1-S-720A-19C	—	250	500	600	30.7	18.5	10.9	160	\$9,900
Severe Duty 600% for 30 sec 125% continuous	RB2-1-S-027A-11C	5	7.5	15	20	14	10	6.9	14	\$1,955
	RB2-1-S-040A-11C	10	10	30	40	14	10	6.9	14	\$2,050
	RB2-1-S-052A-12C	—	15	—	—	14	10	8.4	17	\$2,135
	RB2-1-S-096A-13C	25	30	60	75	15	10	8.4	18	\$2,985
	RB2-1-S-180A-14C	30	40	75	100	21.4	14	9	43	\$4,695
	RB2-1-S-180A-15C	50	60	125	150	21.4	14	9	51	\$5,250
	RB2-1-S-361A-16C	60	75	150	200	23.9	13.3	9.2	56	\$6,445
	RB2-1-S-414A-17C	100	125	250	300	28.9	18	11.1	151	\$7,050
	RB2-1-S-590A-18C	150	200	450	500	28.8	18	11.1	159	\$8,800

*Remote keypad: KPMX3CBL2M is optional for \$450.00

OPEN CHASSIS STARTERS WITH INTEGRAL BYPASS

RB3 SERIES — PRODUCT SELECTION GUIDE

	RB3 Series Model Number	Horsepower				Dimensions (inches)*			Wgt. (lbs.)	List Price
		208 V	240 V	480 V	575 V	H	W	D		
Standard Duty 350% for 30 sec 115% continuous	RB3-1-S-027A-11C	7.5	10	20	25	14	10	7.7	14	\$2,915
	RB3-1-S-040A-11C	10	15	30	40	14	10	8.4	14	\$2,945
	RB3-1-S-052A-12C	15	20	40	50	14	10	9.2	17	\$3,050
	RB3-1-S-065A-12C	20	25	50	60	14	10	9.2	17	\$3,095
	RB3-1-S-077A-13C	25	30	60	75	15	10	9.2	17	\$3,425
	RB3-1-S-096A-13C	30	40	75	100	15	10	9.2	18	\$4,000
	RB3-1-S-125A-14C	40	50	100	125	21.7	12.3	9.7	43	\$4,285
	RB3-1-S-156A-14C	50	60	125	150	21.4	14	9.8	43	\$4,895
	RB3-1-S-180A-14C	60	75	150	200	21.4	14	9.8	43	\$5,500
	RB3-1-S-240A-15C	75	100	200	250	23.8	12.5	11.1	51	\$5,775
	RB3-1-S-302A-15C	100	125	250	300	23.8	12.5	11.1	51	\$6,295
	RB3-1-S-361A-16C	125	150	300	400	23.9	13.3	10	56	\$7,100
	RB3-1-S-414A-17C	150	—	350	—	27.9	18	11.9	151	\$7,645
	RB3-1-S-477A-17C	—	200	400	500	28.9	18	11.9	155	\$8,250
	RB3-1-S-515A-17C	200	—	450	—	28.9	18	11.9	155	\$8,800
	RB3-1-S-590A-18C	—	250	500	600	28.8	18	11.9	159	\$9,570
Heavy Duty 500% for 30 sec 125% continuous	RB3-1-S-720A-19C	250	300	600	700	30.7	18.5	11.7	159	\$10,450
	RB3-1-S-838A-20C	300	350	700	800	29.1	26.1	13.3	160	\$12,250
	RB3-1-S-027A-11C	7.5	10	20	25	14	10	7.7	14	\$2,915
	RB3-1-S-040A-11C	10	15	30	40	14	10	8.4	14	\$2,945
	RB3-1-S-052A-12C	15	20	40	50	14	10	9.2	17	\$3,050
	RB3-1-S-096A-13C	30	40	75	100	15	10	9.2	18	\$4,000
	RB3-1-S-156A-14C	40	50	100	125	21.4	14	9.7	43	\$4,895
	RB3-1-S-180A-15C	60	75	150	200	21.4	14	9.8	51	\$6,000
	RB3-1-S-361A-16C	75	100	200	250	23.9	13.3	10	56	\$7,100
	RB3-1-S-414A-17C	125	150	300	400	27.9	18	11.9	151	\$7,645
Severe Duty 600% for 30 sec 125% continuous	RB3-1-S-590A-18C	200	200	450	500	28.8	18	11.9	159	\$9,570
	RB3-1-S-720A-19C	—	250	500	600	30.7	18.5	11.7	160	\$10,450
	RB3-1-S-027A-11C	5	7.5	15	20	14	10	6.9	14	\$2,915
	RB3-1-S-040A-11C	10	10	30	40	14	10	6.9	14	\$2,945
	RB3-1-S-052A-12C	—	15	—	—	14	10	8.4	17	\$3,050
	RB3-1-S-096A-13C	25	30	60	75	15	10	8.4	18	\$4,000
	RB3-1-S-180A-14C	30	40	75	100	21.4	14	9	43	\$5,500
	RB3-1-S-180A-15C	50	60	125	150	21.4	14	9	51	\$6,000
	RB3-1-S-361A-16C	60	75	150	200	23.9	13.3	9.2	56	\$7,100
	RB3-1-S-414A-17C	100	125	250	300	28.9	18	11.1	151	\$7,645
	RB3-1-S-590A-18C	150	200	450	500	28.8	18	11.1	159	\$9,570

* Keypad is included with MX³ technology

PREPACKAGED STARTERS WITH INTEGRAL BYPASS COMBINATION CIRCUIT BREAKER



MX4PB WITH EMX4i TECHNOLOGY STANDARD AND HEAVY DUTY

Configure the MX4PB to fit your application

To choose a stock starter, simply select a unit from the following pages. Stock units ship the same-day.

To modify a starter, select a unit from the following pages, other options as needed from the Options section.

We will modify the stock unit for next day shipment.

MX4PB configurable solid state starters stocked as:

- Combination circuit breaker (standard and high fault ratings)
- Rotary disconnect operator
- Run duty bypass
- NEMA 4, 12 or 3R enclosure (with options adders)
- 240 / 480 V
- Standard 120 V control power transformer
- Service entrance rated
- Door mounted keypad

EMX4i FEATURES

- Current limit ramp
- Soft brake
- SCR Full Power through operation
- Daily on/off scheduling
- USB upload / download
- Communication options
- QR reader code
- Full graphical LCD display
- Real language feedback messages
- 8 languages: English, Chinese, German, Italian, French, Spanish, Brazilian Portuguese, Russian
- Real time graphs of motor operating performance
- Main menu and Quick Setup
- Dynamic QR code displayed on screen
- Logs: 384 events
- Easy and fast to operate interface
- Quick start application setup for easy commissioning
- Power-through function
- Emergency Run (Fire Mode)
- Built-in Simulation Mode
- USB port for easy and fast configuration backups and data protection
- Bootloader for easy firmware upgrade
- Download or upload parameters
- Download starter logs and data
- Diagnostic logging
- Firmware upgrade



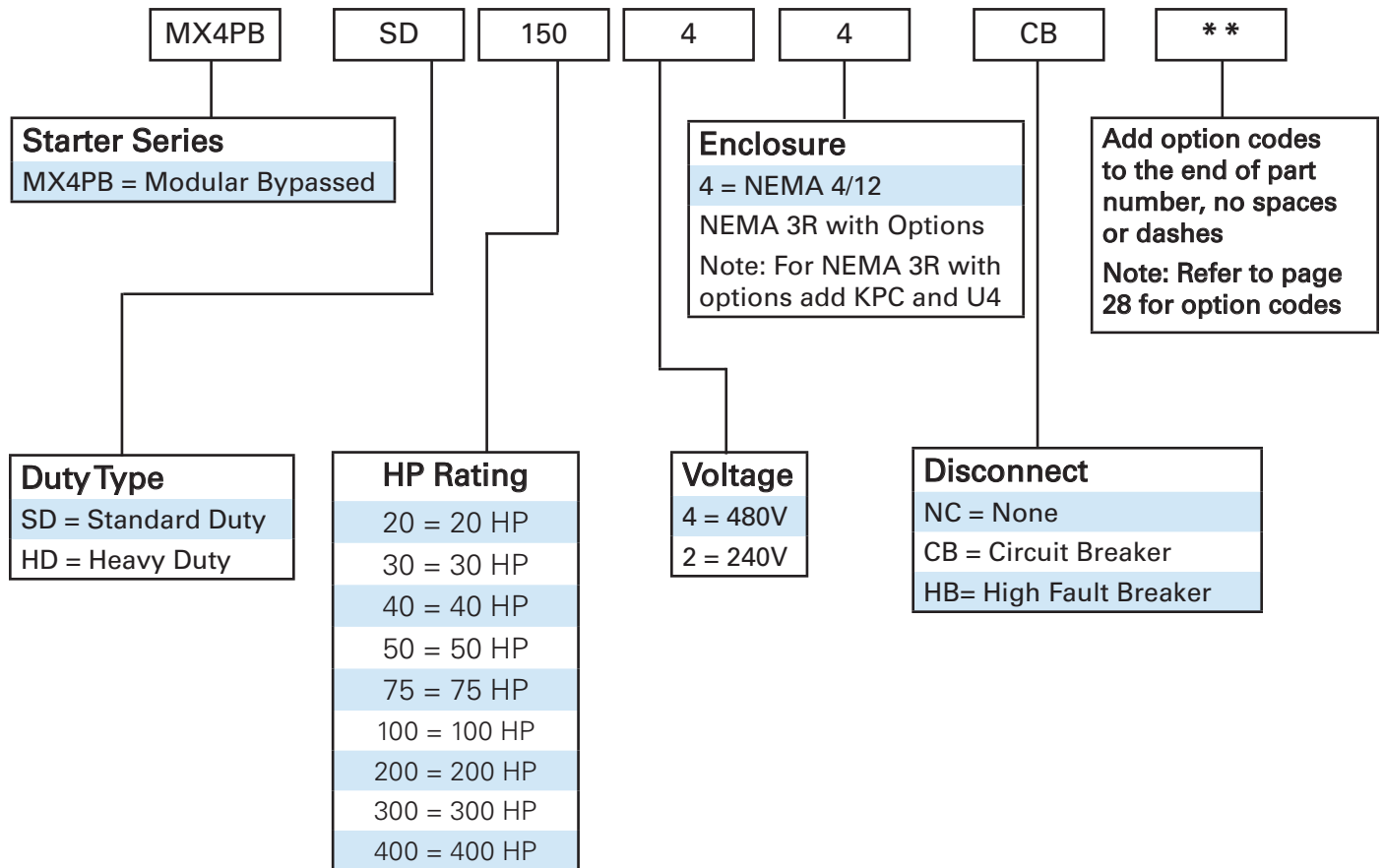
Guaranteed ... for three full years.

Only Benshaw has a three year guarantee.

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



MX4PB PART NUMBER ASSEMBLER



PREPACKAGED STARTERS WITH INTEGRAL BYPASS COMBINATION CIRCUIT BREAKER

MX4PB SERIES NEMA 4/12

Standard Duty / Standard Fault Breaker (35kA Interrupt Rating)

240 VAC

Model Number	Standard Duty HP	Max Amps	Breaker Size	V	Dimensions (Inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✱MX4PB-HD-015-2-4-CB**	15	42	70	240	24	20	12	175	\$3,694
✱MX4PB-SD-020-2-4-CB**	20	54	80	240	24	20	12	175	\$3,804
✱MX4PB-SD-030-2-4-CB**	30	80	125	240	24	20	12	200	\$4,047
✱MX4PB-SD-050-2-4-CB**	50	130	200	240	36	30	16	220	\$6,106
✱MX4PB-SD-075-2-4-CB**	75	192	300	240	36	30	16	220	\$7,057
✱MX4PB-SD-100-2-4-CB**	100	248	400	240	36	30	16	220	\$8,232
✱MX4PB-SD-150-2-4-CB**	150	360	600	240	36	30	16	220	\$8,905
✱MX4PB-SD-200-2-4-CB**	200	477	800	240	36	30	16	220	\$11,102

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Standard duty = 350% current for 30 seconds, 1.15 S.F.

✱ Built-to-order. Please allow 2 week lead time.

For NEMA 3R add options KPC and U4 (see page 28).



480 VAC

Model Number	Standard Duty HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
☞MX4PB-SD-030-4-4-CB**	30	40	100	480	24	20	12	175	\$3,694
☞MX4PB-SD-050-4-4-CB**	50	65	100	480	24	20	12	175	\$3,816
☞MX4PB-SD-075-4-4-CB**	75	96	150	480	36	30	16	200	\$4,047
☞MX4PB-SD-100-4-4-CB**	100	124	200	480	36	30	16	220	\$6,106
☞MX4PB-SD-150-4-4-CB**	150	180	300	480	36	30	16	220	\$7,057
☞MX4PB-SD-200-4-4-CB**	200	240	400	480	36	30	16	220	\$8,232
☞MX4PB-SD-300-4-4-CB**	300	361	600	480	36	30	16	220	\$8,905
MX4PB-SD-400-4-4-CB**	400	477	800	480	36	30	16	400	\$11,102

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Standard duty = 350% current for 30 seconds, 1.15 S.F.

Available for same day shipment, or modified for next day shipment.

☞ Web stocked.

For NEMA 3R add options KPC and U4 (see page 28).

PREPACKAGED STARTERS WITH INTEGRAL BYPASS COMBINATION CIRCUIT BREAKER

MX4PB SERIES NEMA 4/12

Standard Duty / High Fault Breaker (65kA Interrupt Rating)

240 VAC

Model Number	SD High Fault HP	Max Amps	Breaker Size	V	Dimensions (Inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✳MX4PB-SD-015-2-4-HB**	15	42	70	240	24	20	12	175	\$3,914
✳MX4PB-SD-020-2-4-HB**	20	54	80	240	24	20	12	175	\$4,024
✳MX4PB-SD-030-2-4-HB**	30	80	125	240	24	20	12	200	\$4,267
✳MX4PB-SD-050-2-4-HB**	50	130	200	240	36	30	16	220	\$6,326
✳MX4PB-SD-075-2-4-HB**	75	192	300	240	36	30	16	220	\$7,407
✳MX4PB-SD-100-2-4-HB**	100	248	400	240	36	30	16	220	\$8,673
✳MX4PB-SD-150-2-4-HB**	150	360	600	240	36	30	16	220	\$9,485
✳MX4PB-SD-200-2-4-HB**	200	477	800	240	36	30	16	220	\$11,682

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Standard duty = 350% current for 30 seconds, 1.15 S.F.

✳ Built-to-order. Please allow 2 week lead time.

For NEMA 3R add options KPC and U4 (see page 28).

480 VAC

Model Number	SD High Fault HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✳MX4PB-SD-030-4-4-HB**	30	40	100	480	24	20	12	175	\$3,914
✳MX4PB-SD-050-4-4-HB**	50	65	100	480	24	20	12	175	\$4,036
✳MX4PB-SD-075-4-4-HB**	75	96	150	480	24	20	12	200	\$4,267
✳MX4PB-SD-100-4-4-HB**	100	124	200	480	36	30	16	220	\$6,326
✳MX4PB-SD-150-4-4-HB**	150	180	300	480	36	30	16	220	\$7,407
✳MX4PB-SD-200-4-4-HB**	200	240	400	480	36	30	16	220	\$8,673
✳MX4PB-SD-300-4-4-HB**	300	361	600	480	36	30	16	220	\$9,485
✳MX4PB-SD-400-4-4-HB**	400	477	800	480	36	30	16	400	\$11,682

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Standard duty = 350% current for 30 seconds, 1.15 S.F.

✳ Built-to-order. Please allow 2 week lead time.

For NEMA 3R add options KPC and U4 (see page 28).

PREPACKAGED STARTERS WITH INTEGRAL BYPASS COMBINATION CIRCUIT BREAKER

MX4PB SERIES NEMA 4/12

Heavy Duty

240 VAC

Model Number	Heavy Duty HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✳MX4PB-HD-015-2-4-CB**	15	42	70	240	24	20	12	175	\$3,694
✳MX4PB-HD-020-2-4-CB**	20	54	90	240	24	20	12	175	\$3,765
✳MX4PB-HD-030-2-4-CB**	30	80	150	240	24	20	12	200	\$6,124
✳MX4PB-HD-050-2-4-CB**	50	130	225	240	36	30	16	220	\$6,297
✳MX4PB-HD-075-2-4-CB**	75	192	350	240	36	30	16	220	\$8,168
✳MX4PB-HD-100-2-4-CB**	100	248	400	240	36	30	16	220	\$8,285
✳MX4PB-HD-150-2-4-CB**	150	360	600	240	36	30	16	220	\$10,403

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Heavy duty = 450% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

✳ Built-to-order. Please allow 2 week lead time.

480 VAC

Model Number	Heavy Duty HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✳MX4PB-HD-030-4-4-CB**	30	40	100	480	24	20	12	175	\$3,694
✳MX4PB-HD-050-4-4-CB**	50	65	125	480	24	20	12	175	\$6,311
✳MX4PB-HD-075-4-4-CB**	75	96	150	480	36	30	16	200	\$6,467
✳MX4PB-HD-100-4-4-CB**	100	124	200	480	36	30	16	220	\$6,808
✳MX4PB-HD-150-4-4-CB**	150	180	300	480	36	30	16	220	\$8,168
✳MX4PB-HD-200-4-4-CB**	200	240	400	480	36	30	16	220	\$8,285
✳MX4PB-HD-300-4-4-CB**	300	361	600	480	36	30	16	400	\$10,403

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Heavy duty = 450% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

Available for same day shipment, or modified for next day shipment.

✳ Built-to-order. Please allow 2 week lead time.

PREPACKAGED STARTERS WITH INTEGRAL BYPASS COMBINATION CIRCUIT BREAKER

MX4PB SERIES NEMA 4/12

Heavy Duty / High Fault Breaker (65kA Interrupt Rating)

240 VAC

240 VAC

Model Number	HD High Fault HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✂MX4PB-HD-015-2-4-HB**	15	42	70	240	24	20	12	175	\$3,914
✂MX4PB-HD-020-2-4-HB**	20	54	90	240	24	20	12	175	\$4,105
✂MX4PB-HD-030-2-4-HB**	30	80	150	240	36	30	16	200	\$6,344
✂MX4PB-HD-050-2-4-HB**	50	130	225	240	36	30	16	220	\$6,517
✂MX4PB-HD-075-2-4-HB**	75	192	350	240	36	30	16	220	\$8,518
✂MX4PB-HD-100-2-4-HB**	100	248	400	240	36	30	16	220	\$8,635
✂MX4PB-HD-150-2-4-HB**	150	360	600	240	36	30	16	220	\$10,983

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Heavy duty = 450% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

✂ Built-to-order. Please allow 2 week lead time.

480 VAC

	HD High Fault HP	Max Amps	Breaker Size	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
Model Number					H	W	D		
✂MX4PB-HD-030-4-4-HB**	30	40	100	480	24	20	12	175	\$3,914
✂MX4PB-HD-050-4-4-HB**	50	65	125	480	24	20	12	175	\$6,531
✂MX4PB-HD-075-4-4-HB**	75	96	150	480	36	30	16	200	\$6,687
✂MX4PB-HD-100-4-4-HB**	100	124	200	480	36	30	16	220	\$7,028
✂MX4PB-HD-150-4-4-HB**	150	180	300	480	36	30	16	220	\$8,518
✂MX4PB-HD-200-4-4-HB**	200	240	400	480	36	30	16	220	\$8,635
✂MX4PB-HD-300-4-4-HB**	300	361	600	480	36	30	16	400	\$10,983

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Heavy duty = 450% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

✂ Built-to-order. Please allow 2 week lead time.

PREPACKAGED STARTERS WITH INTEGRAL BYPASS NON-COMBINATION

MX4PB SERIES NEMA 4/12

Standard Duty

240 VAC

Model Number	Standard Duty HP	Max Amps	Interrupt Rating	V	Dimensions (Inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✖MX4PB-SD-015-2-4-NC**	15	42	10	240	24	20	12	175	\$3,274
✖MX4PB-SD-020-2-4-NC**	20	54	10	240	24	20	12	175	\$3,396
✖MX4PB-SD-030-2-4-NC**	30	80	10	240	24	20	12	200	\$3,458
✖MX4PB-SD-050-2-4-NC**	50	130	18	240	36	30	16	220	\$5,331
✖MX4PB-SD-075-2-4-NC**	75	192	18	240	36	30	16	220	\$5,643
✖MX4PB-SD-100-2-4-NC**	100	248	18	240	36	30	16	220	\$6,818
✖MX4PB-SD-150-2-4-NC**	150	360	30	240	36	30	16	220	\$6,871
✖MX4PB-SD-200-2-4-NC**	200	477	30	240	36	30	16	220	\$8,309

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Standard duty = 350% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

Available for same day shipment, or modified for next day shipment.

✖ Built-to-order. Please allow 2 week lead time.

480 VAC

Model Number	Heavy Duty HP	Max Amps	Interrupt Rating	V	Dimensions (inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✖MX4PB-SD-030-4-4-NC**	30	40	10	480	24	20	12	175	\$3,274
✖MX4PB-SD-050-4-4-NC**	50	65	10	480	24	20	12	175	\$3,396
✖MX4PB-SD-075-4-4-NC**	75	96	10	480	24	20	12	200	\$3,458
✖MX4PB-SD-100-4-4-NC**	100	124	18	480	36	30	16	220	\$5,331
✖MX4PB-SD-150-4-4-NC**	150	180	18	480	36	30	16	220	\$5,643
✖MX4PB-SD-200-4-4-NC**	200	240	18	480	36	30	16	220	\$6,818
✖MX4PB-SD-300-4-4-NC**	300	361	30	480	36	30	16	220	\$6,871
✖MX4PB-SD-400-4-4-NC**	400	477	30	480	36	30	16	220	\$8,429

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Standard duty = 350% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

Available for same day shipment, or modified for next day shipment.

✖ Built-to-order. Please allow 2 week lead time.

PREPACKAGED STARTERS WITH INTEGRAL BYPASS NON-COMBINATION

MX4PB SERIES NEMA 4/12

Heavy Duty

240 VAC

240 VAC

Model Number	Standard Duty HP	Max Amps	Interrupt Rating	V	Dimensions (Inches)			Weight (lbs)	NEMA 4/12 List Price
					H	W	D		
✂MX4PB-HD-015-2-4-NC**	15	42	10	240	24	20	12	175	\$3,274
✂MX4PB-HD-020-2-4-NC**	20	54	10	240	24	20	12	175	\$3,465
✂MX4PB-HD-030-2-4-NC**	30	80	18	240	36	30	16	200	\$5,555
✂MX4PB-HD-050-2-4-NC**	50	130	18	240	36	30	16	220	\$5,523
✂MX4PB-HD-075-2-4-NC**	75	192	18	240	36	30	16	220	\$6,754
✂MX4PB-HD-100-2-4-NC**	100	248	30	240	36	30	16	220	\$6,871
✂MX4PB-HD-150-2-4-NC**	150	360	30	240	36	30	16	220	\$8,369

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Heavy duty = 450% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

Available for same day shipment, or modified for next day shipment.

✂ Built-to-order. Please allow 2 week lead time.

480 VAC

	Heavy Duty	Max	Interrupt		Dimensions (inches)			Weight	NEMA 4/12
Model Number	HP	Amps	Rating	V	H	W	D	(lbs)	List Price
✂MX4PB-HD-030-4-4-NC**	30	40	10	480	24	20	12	175	\$3,274
✂MX4PB-HD-050-4-4-NC**	50	65	10	480	24	20	12	175	\$5,722
✂MX4PB-HD-075-4-4-NC**	75	96	18	480	36	30	16	200	\$5,555
✂MX4PB-HD-100-4-4-NC**	100	124	18	480	36	30	16	220	\$5,331
✂MX4PB-HD-150-4-4-NC**	150	180	18	480	36	30	16	220	\$6,754
✂MX4PB-HD-200-4-4-NC**	200	240	30	480	36	30	16	220	\$6,871
✂MX4PB-HD-300-4-4-NC**	300	361	30	480	36	30	16	220	\$8,369

** Insert option code. See page 28 for a list of available options. Add options to the end of part number.

Heavy duty = 450% current for 30 seconds, 1.25 S.F.

For NEMA 3R add options KPC and U4 (see page 28).

Available for same day shipment, or modified for next day shipment.

✂ Built-to-order. Please allow 2 week lead time.

PREPACKAGED STARTERS WITH INTEGRAL BYPASS COMBINATION CIRCUIT BREAKER

MX4PB SERIES NEMA 4/12

Options

Option Code		List Price
KP	Door Mounted Keypad N12	Included
KPC	NEMA 3R/4 Cover for Door Mounted Keypad	\$135
U4	Space Heater with Thermostat	\$445

Control Options (only one code can be selected)

Option Code		List Price
QN	Run Light	\$125
QF	Reset Push-Buttons	\$85
CP	Start / Stop Push-Buttons	\$175
CQ	Start / Stop Push-Buttons and Run Light	\$235
CR	Start / Stop Push-Buttons, Run Light, Fault Light and Reset Push-Button	\$500
RK	Fault Light	\$125
CS	Fault Light and Reset Push-Button	\$210
CT	Run Light, Fault Light and Reset Push-Button	\$335
CU	HOA and Start / Stop Push-Buttons	\$325
CV	HOA , Start / stop Push-Buttons and Run Light	\$445
CW	HOA, Start / Stop Push-Buttons, Run Light, Fault Light and Reset Push-Button	\$655

Communication interfaces for network integration

Option Code		List Price
CE	DeviceNet Card, EMX4i	\$300
CJ	Modbus Card, EMX4i	\$228
CD	Profibus Card, EMX4i	\$390
CK	Modbus TCP Card, EMX4i	\$768
CL	Profinet Card. EMX4i	\$768
CF	Ethernet IP Card, EMX4i	\$768

Note: Only one can be selected

Smart Cards

	List Price
SCC-PC-01 Smart Card, Pump Application [EMX4]	\$330

Fingerguard

	List Price
995-17309-00 Fingerguard IP20 Kit for Personnel Safety	\$194

PACKAGED STARTERS WITH ATL BYPASS HEAVY DUTY RX4E 480 V WITH EMX4i TECHNOLOGY



RX4E SERIES- NEMA12/COMBINATION/DUAL REDUNDANT

STANDARD FEATURES:

- EMX4i Soft Starter, UL Listed
- Circuit breaker with Flange operator (standard and high fault ratings)
- 450% rated for 30 seconds
- 1.15 service factor
- Bypass contactor, starting duty
- Class 30 overload on bypass
- Internally mounted bypass switch
- Control power transformer
- Door mounted devices
- Keypad, start, stop, reset, run light, local off remote, fault light
- Terminal strip remote connections
- Option adder for NEMA 3R

EMX4i FEATURES:

- Full graphical LCD display
- Real languages feedback messages
- 8 languages: English, Chinese, German, Italian, French, Spanish, Brazilian Portuguese, Russian
- Real time graphs of motor operating performance
- Main menu and Quick Setup
- Dynamic QR code displayed onscreen
- Logs: 384 events
- Easy and fast to operate interface
- Quick start application setup for easy commissioning
- Power-through function
- Emergency Run (Fire Mode)
- Built-in Simulation Mode
- USB port for easy firmware upgrade
- Download or upload parameters
- Download starter logs and data
- Diagnostic logging
- Firmware upgrade



Guaranteed ... for three full years.

Only Benshaw has a three year guarantee.

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



PACKAGED STARTERS WITH ATL BYPASS HEAVY DUTY 480 V



RX4E SERIES — NEMA12 AND 3R/COMBINATION/DUAL REDUNDANT

HEAVY DUTY WITH EMX4i TECHNOLOGY

Model Number	Amps	HP 480 V	Breaker Size	Dimensions (inches)			Wgt. (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
☞ RX4E-050-480-XX	65	50	100	26	24	12	215	\$5,565	\$6,095
☞ RX4E-075-480-XX	96	75	225	48	24	12	220	\$6,825	\$7,175
☞ RX4E-100-480-XX	124	100	225	48	24	12	230	\$7,615	\$8,355
☞ RX4E-125-480-XX	156	125	225	48	24	12	320	\$7,665	\$9,055
☞ RX4E-150-480-XX	180	150	300	48	24	12	325	\$7,825	\$9,195
☞ RX4E-200-480-XX	240	200	400	48	24	12	335	\$10,245	\$11,285
☞ RX4E-250-480-XX	302	250	400	48	36	16	510	\$11,265	\$12,335
☞ RX4E-300-480-XX	361	300	600	48	36	16	515	\$11,645	\$12,600
☞ RX4E-400-480-XX	477	400	800	87	37	20	765	412.968.0100	412.968.0100
☞ RX4E-500-480-XX	590	500	1200	87	37	20	790	412.968.0100	412.968.0100
☞ RX4E-600-480-XX	720	600	1200	87	37	20	815	412.968.0100	412.968.0100

☞ Web stocked.

XX Add 12 or 3R to part number
450% current for 30 seconds.

HEAVY DUTY WITH EMX4i TECHNOLOGY/ HIGH FAULT BREAKER (65kA Interrupt Rating)

Model Number	Amps	HP 480 V	Breaker Size	Dimensions (inches)			Wgt. (lbs.)	NEMA 12 List Price	NEMA 3R List Price
				H	W	D			
☞ RX4E-050-480-HB-XX	65	50	100	26	24	12	215	\$5,785	\$6,315
☞ RX4E-075-480-HB-XX	96	75	225	48	24	12	220	\$7,045	\$7,395
☞ RX4E-100-480-HB-XX	124	100	225	48	24	12	230	\$7,835	\$8,575
☞ RX4E-125-480-HB-XX	156	125	225	48	24	12	320	\$7,885	\$9,275
☞ RX4E-150-480-HB-XX	180	150	300	48	24	12	325	\$8,175	\$9,545
☞ RX4E-200-480-HB-XX	240	200	400	48	24	12	335	\$10,595	\$11,635
☞ RX4E-250-480-HB-XX	302	250	400	48	36	16	510	\$11,845	\$12,915
☞ RX4E-300-480-HB-XX	361	300	600	48	36	16	515	\$12,225	\$13,180
☞ RX4E-400-480-HB-XX	477	400	800	87	37	20	765	412.968.0100	412.968.0100
☞ RX4E-500-480-HB-XX	590	500	1200	87	37	20	790	412.968.0100	412.968.0100
☞ RX4E-600-480-HB-XX	720	600	1200	87	37	20	815	412.968.0100	412.968.0100

☞ Web stocked.

XX Add 12 or 3R to part number

PACKAGED STARTERS WITH ATL BYPASS SEVERE DUTY 480 V



REDISTART RX2E SERIES — NEMA12/COMBINATION/DUAL REDUNDANT

RX2E SERIES PRODUCT HIGHLIGHTS:

RX2E starters provide solid state reduced voltage starting for normal operation and full voltage emergency backup starting with complete electronic motor protection at the flip of a switch. This unique dual redundant design is the ideal solution for critical applications where downtime is extremely disruptive to production operations and cannot be tolerated. Benshaw's MX solid state controls provide precise digital starting and stopping, motor protection, metering, diagnostics and communications standard.

Units are built to order with MX² technology, but are also available with MX³ technology.

Rugged. Reliable. Ready.



STANDARD FEATURES:

- NEMA 12, dual redundant, combination/circuit breaker
- Shunt trip on main circuit breaker
- 500% — 30 seconds rated solid state starter, UL certified and listed
- 1800 PIV rated SCRs, UL certified and listed
- 125% continuous duty rated solid state starter, UL certified and listed
- Selector switch for selecting solid state or full voltage operation mounted inside enclosure
- Full HP rated bypass contactor with a 1.15 service factor, wired for normal bypass operation and full voltage start and run operation, with normally open auxiliary contact
- Separately mounted "SPE" series overload relay wired for full voltage start and run operation.
- 110 volt control power transformer with primary and secondary fuses
- Door-mounted start and stop push-buttons
- Door-mounted keypad
- Door-mounted run indicating light
- Door-mounted local-off remote switch
- Door-mounted overload reset
- Terminal strip mounted inside enclosure for remote start/stop connection
- Auxiliary relay with (2) Form C run contacts
- Benshaw MX² or MX³ programmable motor controller with soft start, soft stop and motor protection capabilities
- RS485 ModBus communications
- Analog I/O
- Available with MX³ technology

Guaranteed ... for three full years.

Only Benshaw has a three year guarantee.

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



PACKAGED STARTERS WITH ATL BYPASS

SEVERE DUTY 480 V

REDISTART RX2E/RX3E SERIES - COMBINATION/DUAL REDUNDANT PACKAGED STARTER WITH CIRCUIT BREAKER, EMERGENCY ACROSS-THE-LINE BYPASS/ NEMA12/NEMA3R

RX2E SERIES WITH MX2 TECHNOLOGY

Model Number	Amps	HP	CB	Dimensions (inches)			Wgt. (lbs.)	NEMA 12 List Price	NEMA 3R List Price
		480 V	Trip	H	W	D			
* RX2E-050-480-XX	65	50	100	26	24	12	215	\$5,945	\$6,495
* RX2E-075-480-XX	96	75	225	26	24	12	220	\$7,285	\$7,655
* RX2E-100-480-XX	124	100	225	48	24	12	230	\$8,125	\$8,900
* RX2E-125-480-XX	156	125	225	48	24	12	320	\$8,195	\$9,660
* RX2E-150-480-XX	180	150	300	48	24	12	325	\$8,345	\$9,800
* RX2E-200-480-XX	240	200	400	48	36	12	335	\$10,925	\$12,050
* RX2E-250-480-XX	302	250	400	70	30	18	510	\$12,000	\$13,165
* RX2E-300-480-XX	361	300	600	70	30	18	515	\$13,195	\$14,445
* RX2E-400-480-XX	477	400	800	87	37	20	765	\$16,150	\$18,765
* RX2E-500-480-XX	590	500	1200	87	37	20	790	\$21,285	\$22,445
* RX2E-600-480-XX	720	600	1200	87	37	20	815	\$22,400	\$24,640

* Built-to-order. Please allow 2 week lead time.

XX Add 12 or 3R to part number 500% current for 30 seconds.

RX3E SERIES WITH MX3 TECHNOLOGY

Model Number	Amps	HP	CB	Dimensions (inches)			Wgt. (lbs.)	NEMA 12 List Price	NEMA 3R* List Price
		480 V	Trip	H	W	D			
* RX3E-050-480-XX	65	50	100	48	24	13	240	\$7,165	\$7,565
* RX3E-075-480-XX	96	75	225	48	24	13	245	\$7,575	\$8,225
* RX3E-100-480-XX	124	100	225	48	24	17	255	\$8,835	\$9,385
* RX3E-125-480-XX	156	125	225	48	36	17	355	\$9,575	\$10,050
* RX3E-150-480-XX	180	150	300	48	36	17	360	\$9,725	\$10,695
* RX3E-200-480-XX	240	200	400	48	36	17	370	\$12,315	\$13,000
* RX3E-250-480-XX	302	250	400	70	30	18	565	\$13,400	\$13,995
* RX3E-300-480-XX	361	300	600	70	30	18	570	\$13,825	\$14,450
* RX3E-400-480-XX	477	400	800	87	37	20	850	\$19,125	\$20,495
* RX3E-500-480-XX	590	500	1200	87	37	20	875	\$25,765	\$26,885
* RX3E-600-480-XX	720	600	1200	87	37	20	905	\$26,885	\$28,000

* Built-to-order. Please allow 2 week lead time.

* NEMA 3R replace 12KP with 3RKP.

NEMA 3R Units should be mounted out of direct sunlight.

XX Add 12 or 3R to part number 500% current for 30 seconds.



Benshaw's standard products are stocked in warehouses in the USA and Canada. . . ready for shipment to support your critical needs:

Benshaw.com

In the USA, call or fax

Phone: 412.968.0100

Fax: 412.968.5415

In Canada, call or fax

Phone: 519.291.5112

Fax: 519.291.2595

BenshawExpress.com

If you prefer to order online, BenshawExpress.com provides direct digital access to our complete inventory of standard controls, drives and spare parts - 24 hours a day, seven days a week, 365 days a year.

Save time with 24/7 online access at benshawexpress.com

Benshaw Express is a convenient, time-saving tool for Benshaw authorized distributors.

The Benshaw web store enables users 24/7 access to:

- Check price and availability
- Place orders
- Track open orders
- Obtain tracking for shipped orders
- View freight charges for recent shipments
- View invoices
- Customized levels of access

Access Benshaw Express by following the link on **Benshaw.com** or directly at **BenshawExpress.com**.

24/7 Technical Support

Benshaw is dedicated to providing comprehensive 24-hour-a-day, 7-day-a-week phone support. Benshaw provides repair, spare parts, field engineering, retrofit and training services, when and where you need us. You can count on our experienced team, backed by the latest diagnostics and repair tools and an extensive part inventory to support your operations.

Call 1.800.203.2416

24/7 Hotline Support from our operations in Pittsburgh and Listowel (Canada):

- Technical phone support
- Overnight parts shipment
- 24-hour service dispatch
- Coordination of all service capabilities

Repairs

Repairs are made on Benshaw equipment by trained, experienced personnel, using the latest diagnostic and test equipment.

Field Services are performed on-site by skilled technicians, engineers or complete team if needed, including:

- Start-up commissioning
- Field repairs
- Field analysis/data collection
- Preventative maintenance
- Retrofits

The Benshaw Product Line

A wide range of motor controls and drives is available.

- Solid-state starters fractional up to 30,000HP at 15kV
- LV AC drives to 800HP, MV AC drives to 10,000HP
- Electromechanical controls to 800A

Benshaw express is a 24/7 online inventory and order entry system for authorized Benshaw distributors:

- 24/7 shipment
- Air or truck delivery

Visit us online at
Benshaw.com and
benshawexpress.com,
or contact:

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Specifications are subject to change without notice.

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