

## EMX4i0042BV5C1H

**EMX4i SOFT STARTERS, 42A, 525VAC, 110-120 or 220-240VAC CONTROL WITH INTERENAL BYPASS**  
**SOFT STARTER > EMX4i SERIES**



### FEATURES

- Smaller and lighter compared with EMX3.
- Quick start application setup for easy commissioning.
- Simulation testing (Run, Protection and signaling).
- SCR fail power through operation
- Emergency run mode.
- Provides Intergrated USB port.
- Pluggable terminals.
- 99% energy efficient when running and IE3 compatible.
- Optional remote keypad.
- Power metering & monitoring.
- Dual Motor Settings.
- Inside delta (6 wire) control
- Fully adjustable protection:
  - Adjustable protection levels.
  - Adjustable protection delays.
- Auto Start & Stop (weekly)
- Auto-reset of fault conditions.
- Jog forward and reverse operation
- Pump clean
- Smart phone app.
- Realtime Metering & multi-languages graphical display.
- Real time graphs of motor operating performance.
- Dynamic QR code displayed onscreen.
- Logs: 384 events.

### OPTIONAL

The smart card has been designed to support integration with pumping applications. and provides the following additional inputs and outputs:

- 3 x digital inputs
- 3 x 4-20 mA transducer inputs
- 1 x RTD input
- 1 x USB-B port
- Remote keypad connector port
- Support Serial & Ethernet based fieldbus

### SPECIFICATIONS

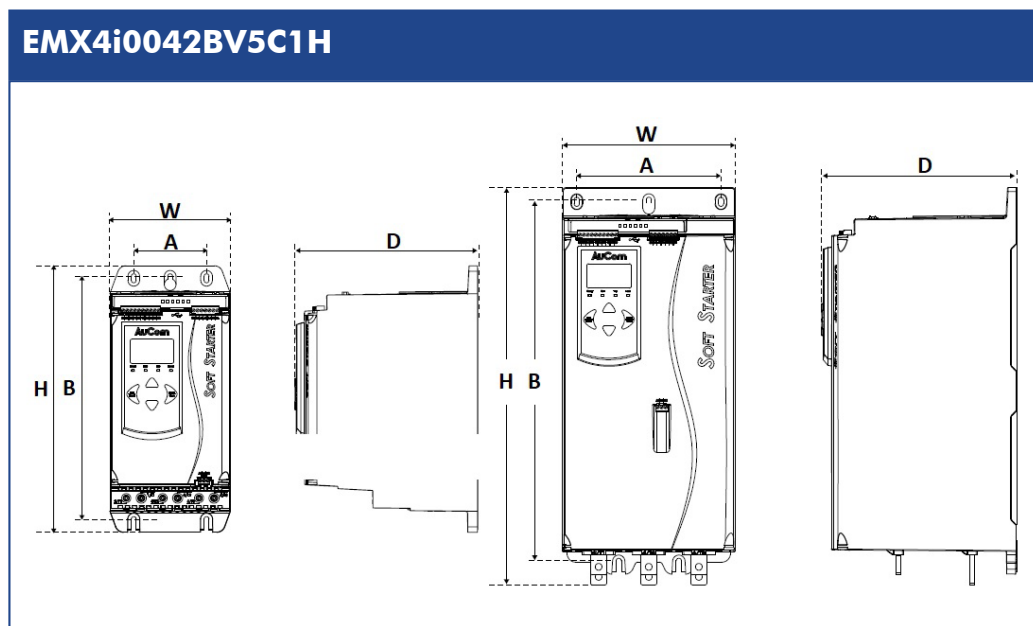
Part No	EMX4i0042BV5C1H
With internal bypass	Yes
Supply voltage	200 ~ 525 VAC
Control voltage	110-120 VAC & 220-240 VAC
Current rating A: Light; Medium; Heavy; Severe;	42; 34; 34; 27;
Degree of protection	IP20
Rated impulse withstand voltage	4kV
Rated insulation voltage	600 VAC
Mains frequency (at start)	45 Hz to 66 Hz
Input rating	Active 24 VDC, 8 mA approx.
Frame size	S1
Operating temperature	-10 °C ~ 60 °C, above 40 °C with derating
Humidity	5% to 95% Relative Humidity
Pollution degree	3
Vibration	IEC 60068-2-6
XLR-8 adaptive control	Yes
Short circuit capability:	Coordination with semiconductor uses Type 2 Coordination with HRC fuses Type 1
Electromagnetic capability: EMC Emission (Internally bypassed models)	Class B
Supports serial & ethernet based fieldbus:	DeviceNet, Ethernet/IP, Modbus RTU, Modbus TCP, Profibus, Profinet
Certification:	IEC 60947-4-2 IEC 60947-4-2
Multiple starting modes:	Constant Current, Current Ramp, Adaptive Control, Kickstart.
Multiple stopping modes:	Timed voltage ramp soft stop, coast to stop, adaptive control, DC Brake, Soft Brake.

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### SPECIFICATIONS

Heat Dissipation: Start	4.5 watts per ampere
Run	≤ 35 watts approx
Advanced protection systems over:	Motor overload, Excess start time, Over/Undercurrent, Current imbalance, External trip (x2), Motor thermistor, shorted SCR action, Phase loss, Power loss, Over/Under Voltage, Over/Under Power, RTD, Supply frequency, Network communications, Heatsink over-temperature, Batter/clock failure
Embedded I/O	2 x Fixed, 2 x Programmable digital inputs. 1 x Motor Thermistor input. 1 x Fixed, 2 x programmable relay outputs. 1 x Analogue outputs.
Weight (Kg)	4.8
Dimensions (W X H X D) mm	152 X 336 X 231

### DIMENSIONS



	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
EMX4i0024BV5C1H	152	336	231	92	231
EMX4i0042BV5C1H					
EMX4i0052BV5C1H					
EMX4i0064BV5C1H					
EMX4i0069BV5C1H					
EMX4i0105BV5C1H					
EMX4i0115BV5C1H					
EMX4i0135BV5C1H					