

EMX4i0105BV5C2H

EMX4i SOFT STARTERS, 105A, 525VAC, 24V AC/DC CONTROL WITH INTERNAL 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	EMX4i0105BV5C2H
With internal bypass	Yes
Supply voltage	200 ~ 525 VAC
Control voltage	24 VAC/VDC
Current rating A: Light; Medium; Heavy; Severe;	105; 86; 84; 69;
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 Coordination with HRC fuses
	Type 2 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
Run

4.5 watts per ampere
≤ 50 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, Battery/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.

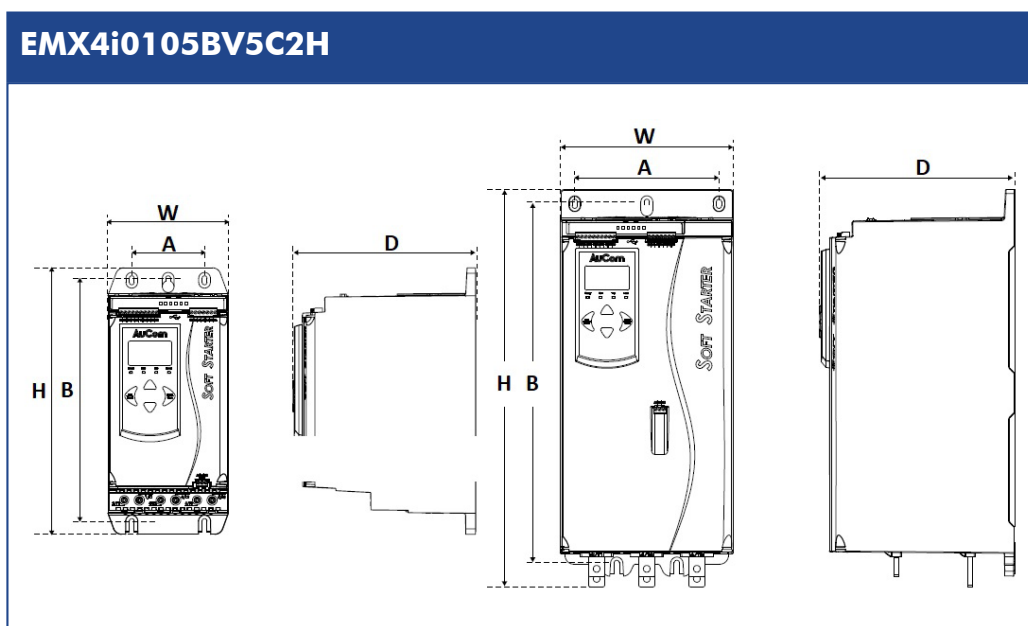
Weight (Kg)

5.5

Dimensions (W X H X D) mm

152 X 336 X 231

DIMENSIONS



	W (mm)	H (mm)	D (mm)	A (mm)	B (mm)
EMX4i0024BV5C2H	152	336	231	92	231
EMX4i0042BV5C2H					
EMX4i0052BV5C2H					
EMX4i0064BV5C2H					
EMX4i0069BV5C2H					
EMX4i0105BV5C2H					
EMX4i0115BV5C2H					
EMX4i0135BV5C2H					