

# AUCom

## MOTOR CONTROL SPECIALISTS

### General

Current Range	24 A ~ 1250 A (nominal)
Motor connection	In-line or inside delta
Bypass	Integrated internal

### Supply

Mains Voltage (L1, L2, L3)	
EMX4i-xxxx-V5	200 VAC ~ 525 VAC ( $\pm 10\%$ )
EMX4i-xxxx-V7	380 VAC ~ 690 VAC ( $\pm 10\%$ )
EMX4i-xxxx-V12	1200 VAC (+10%/-20%)
Control Voltage (A1, A2, A3)	
EMX4i-xxxxB-xx-C1 (A1, A2)	110 VAC ~ 120 VAC (+10%/-15%), 600 mA
EMX4i-xxxxB-xx-C1 (A2, A3)	220 VAC ~ 240 VAC (+10%/-15%), 600 mA
EMX4i-xxxxB-xx-C2 (A1, A3)	24 VAC/VDC ( $\pm 20\%$ ), 2.8 A
Mains Frequency	45 Hz to 66 Hz
Rated insulation voltage to earth	600 VAC
Rated impulse withstand voltage	6 kV
Form designation	Bypassed or continuous, semiconductor motor starter form 1

### Short circuit capability

Coordination with semiconductor fuses	Type 2
Coordination with HRC fuses	Type 1
Electromagnetic capability	(compliant with EU Directive 2004/108/EC)
EMC Immunity	IEC 60947-4-2
EMC Emissions	IEC 60947-4-2 Class B

### Inputs

Input rating	Active 24 VDC, 8 mA approx.
Motor thermistor (B4, B5)	Trip $>3.6\text{k}\Omega$ , reset $<1.6\text{k}\Omega$

### Outputs

Relay outputs	10 A @ 250 VAC resistive, 5 A @ 250 VAC, AC15 pf 0.3
Main contactor (33, 34)	Normally open
Relay output A (41, 42, 43)	Changeover
Relay output B (53, 54)	Changeover
Analog output (21, 22)	
Maximum load	600 $\Omega$ (12 VDC @ 20 mA)
Accuracy	$\pm 5\%$

### Environmental

Operating temperature	-10 °C ~ 60 °C, above 40 °C with derating
Operating altitude	0 - 1000 m, above 1000 m with derating
Storage temperature	-25 °C ~ 60 °C
Humidity	5% to 95% Relative Humidity

# AuCom

## MOTOR CONTROL SPECIALISTS

Pollution degree

Pollution Degree 3

Vibration

IEC 60068-2-6

Protection

EMX4i-0024B ~ EMX4i-0135B

IP20

EMX4i-0184B ~ EMX4i-0580B

IP00

### Heat dissipation

During start

4.5 watts per ampere

During run

EMX4i-0024B ~ EMX4i-0052B

≤ 35 watts approx.

EMX4i-0064B ~ EMX4i-0135B

≤ 50 watts approx

EMX4i-0184B ~ EMX4i-0250B

≤ 120 watts approx.

EMX4i-0352B ~ EMX4i-0580B

≤ 140 watts approx.

### Certification

CCC

GB 14048.6

CE

EN 60947-4-2

C-UL

C22.2 No. 60947-4-2

UL

60947-4-2

Marine

Lloyds

Lloyds Marine No 1 Specification

ABS

Steel Vessel Rules 2010

RCM

IEC 60947-4-2

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