# Product data sheet
## Characteristics

# LMC402CAA10000
## Motion controller LMC402 16 axis - Acc kit - Basic



### Main

| | |
|---|---|
| Range of product | PacDrive 3 |
| Product or component type | Motion controller |

### Complementary

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|---|---|
| Product compatibility | LMC402 |
| Number of axis | 16 |
| Discrete input number | 20 for digital input conforming to IEC 61131-2 Type 1<br>4 for interrupt input conforming to IEC 61131-2 Type 1<br>16 for touch probe input conforming to IEC 61131-2 Type 1 |
| Discrete input voltage | 0...6 V<br>20...33 V |
| Discrete input voltage type | DC |
| Analogue input number | 2 |
| Analogue input type | Voltage analog input: - 10...10 V<br>Current analog input: - 20...20 mA |
| Analogue input resolution | 12 bits |
| Discrete input current | 5 MA for digital input<br>5 MA for interrupt input<br>5 MA for touch probe input |
| Input impedance | 100000 Ohm for analog input<br>500 Ohm |
| Anti bounce filtering | 1 ms or 5 ms configurable digital input<br>100 µs touch probe input<br>0.1 ms or 1 ms configurable interrupt input |
| Discrete output number | 16 digital output<br>2 analog output |
| Discrete output current | 250 mA for digital output |
| Maximum leakage current | 0.4 MA |
| Maximum number of I/O expansion module | 2 |
| [Us] rated supply voltage | 24 V DC |
| Power consumption in W | 36 W |
| Memory type | 256 kB NVRAM<br>4 GB RAM DDR3L |
| Programming language | FBD (function block diagram)<br>CFC (continuous function chart)<br>SFC (sequential function chart)<br>ST (structured text)<br>IL (instruction list)<br>LD (ladder) |

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|---|---|
| Integrated connection type | 2 Ethernet port, connector RJ45 for protocol Sercos<br>1 CAN port, connector SUB-D 9 for protocol CANopen<br>1 USB port, connector USB type A<br>2 Ethernet port, connector RJ45 for protocol RT-Ethernet (real-time)<br>1 Ethernet port, connector RJ45 for protocol PacNet<br>1 port, connector SUB-D 9 for protocol Profibus DP<br>1 COM1 serial link, connector SUB-D 9 for protocol RS232<br>1 COM2 serial link, connector SUB-D 9 for protocol RS422/RS485<br>1 port, connector SUB-D 9 for master encoder<br>1 Ethernet port, connector RJ45 for protocol Ethernet 10/100/1000BASE-T, FTP/HTTP |
| Supply | Power supply: 24 VDC, <1 A |
| Width | 100 Mm |
| Height | 310 Mm |
| Depth | 243 Mm |
| Net weight | 3.5 Kg |

## Environment

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|---|---|
| Standards | IEC 61131-2<br>CSA C22.2 No 274<br>UL 508C<br>CSA C22.2 No 14 |
| Product certifications | cULus[RETURN]CE[RETURN]EAC[RETURN]CSA |
| Ambient air temperature for operation | 5…55 °C |
| Relative humidity | 5…95 % without condensation |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Pollution degree | 2 conforming to IEC 61131-2 |
| Vibration resistance | 3.5 mm at 5…8.4 Hz<br>10 m/s² at 8.4…150 Hz |
| Shock resistance | 150 m/s² for 6 ms (operation) conforming to IEC 60721-3-3 |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 18.000 Cm |
| Package 1 Width | 34.000 Cm |
| Package 1 Length | 46.000 Cm |
| Package 1 Weight | 4.234 Kg |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 75.000 Cm |
| Package 2 Width | 60.000 Cm |
| Package 2 Length | 80.000 Cm |
| Package 2 Weight | 35.500 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 0.7 |
| Total lifecycle Carbon footprint | 483 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 23.667094195108557 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 24 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 1.219980331851009 |
| Carbon footprint of the distribution phase [A4] | 1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 2.364489154031586 |
| Carbon footprint of the installation phase [A5] | 2 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 451.5004460493924 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 452 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 4.126562558868742 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 4 kg CO2 eq. |

| | |
|---|---|
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 483 |
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | No |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, w |
| PVC free | Yes |
| End of life manual availability | End Of Life Information |
| Take-back | No |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised