

## PMCprimo MC.C/16DIDO/2

680080



Motion control system in housing; Bus system standard: EtherCAT, CANopen, Profibus; Communication: EtherNet, USB; Hardware: CPU 1,3 GHz, 3 Encoder inputs, 16 digital inputs, 16 digital outputs; Software option: none.

## Technical details

### General data

Approval: CE, UKCA, cULus Listed

### Technical data

#### Electrical data

Purpose of U1: supply  
Supply voltage (V): 24 - 24 V  
Type of supply voltage U1: DC

#### CPU

Memory for applications: 256 MB  
Processor clock speed: 1.3 GHz  
RAM: 512 MB

#### Absolute encoder input

No. of inputs absolute encoder: 3  
Connection (absolute encoder): Mini-IO female connect., 8-pin  
Supply voltage for ABS: 10 ... 30 VDC  
Signal clock output ABS: Differential signal (RS 422)  
Signal data input ABS: Differential signal (RS 422)  
Pot. isolation absolute&system: Yes

#### Input incremental encoder

Connection (increment encoder): 8-pin Mini-IO female connector

|                                  |                                  |
|----------------------------------|----------------------------------|
| Supply voltage for incr.:        | 10 ... 30 VDC, 4.75 ... 5.25 VDC |
| Phase pos. diff.sign. inc. enc.: | 90° ±30°                         |
| Encoder emulation                |                                  |
| Max. jitter encoder emulation:   | 1000 incr./s                     |
| Inputs                           |                                  |
| Number of inputs:                | 16                               |
| Signal level at input at 0:      | -3 - +5 VDC                      |
| U input to EN 61131-2 Type 1:    | 24 V DC                          |
| Potential isolation input:       | Yes                              |
| Semiconductor outputs            |                                  |
| Tolerance ext. volt. DC S/C:     | -15 %/+20 %                      |
| Pot. isol. S/C output:           | Yes                              |
| S/C output short circuit proof:  | Yes                              |
| Perm. load 1pole Output:         | Resistive, Inductive, Capacitive |
| PROFIBUS-DP interface            |                                  |
| Profibus type:                   | Slave                            |
| Perm. PROFIB. statn. addresses:  | 0 ... 126d                       |
| Setting PROFIBUS station addr.:  | Software                         |
| Connector type Profibus inter.:  | 9-pin D-Sub female connector     |
| Name PROFIBUS protocol:          | DPV0                             |
| PROFIBUS operating modes:        | AutoBaud                         |
| Name description file profib:    | Pilz0DCC.gsd                     |
| PROFIBUS manufacturer ID:        | 0DCCh                            |
| Ethernet interface               |                                  |
| Ethernet IP addr. factory set:   | 192.168.0.11                     |
| Connector type ETHERNET int.:    | RJ45                             |
| Ethernet transmission rate:      | 1 Gbit/s                         |
| CANopen interface                |                                  |
| Number of CANopen interfaces:    | 3, 4                             |

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| CANopen type:                   | Master, Slave                                            |
| Canopen cycle time:             | 1 ms, 2 ms, 4 ms                                         |
| Canopen transmission times:     | 500 kBit/s, 250 kBit/s, 1000 kBit/s                      |
| Pot. isolation CAN and system:  | yes                                                      |
| Number of Ethernet interfaces:  | 1                                                        |
| EtherNet/IP interface           |                                                          |
| Pot. isol. EtherNet & system:   | Yes                                                      |
| Ethercat interface              |                                                          |
| Connector type Ethercat int.:   | RJ45                                                     |
| Ethercat transmission rate:     | 100 MBit/s                                               |
| Pot. isolation EtherCAT&system: | Yes                                                      |
| Environmental data              |                                                          |
| Climatic suitability to ...:    | EN 60068-2-2, EN 60068-2-1, EN 60068-2-78, EN 60068-2-14 |
| Ambient temperature standard:   | EN 60068-2-14                                            |
| Ambient temperature:            | 0 - 40 °C                                                |
| Storage temperature standard:   | EN 60068-2-1/-2                                          |
| Climatic suitability standard:  | EN 60068-2-78                                            |
| Humidity rating:                | 93 % r. h. at 40 °C                                      |
| Condensation permitted?:        | Not permitted                                            |
| Perm. operating height ASL:     | 2000 m                                                   |
| EMC to standard ...:            | EN 61131-2                                               |
| Vibration to standard ...:      | EN 60068-2-6                                             |
| Acc. shock to standard1:        | 150 m/s <sup>2</sup>                                     |
| Cooling type:                   | Built-in fan                                             |
| Clearance & creepage dist. to:  | EN 61131-2                                               |
| Overvoltage category:           | II                                                       |
| Pollution degree clear.&creep.: | 2                                                        |
| Protection type standard:       | EN 60529                                                 |
| Potential separation            |                                                          |

|                                |                                |
|--------------------------------|--------------------------------|
| Potential isolation 1 between: | Rotary encoder&system voltage  |
| Type of potential isolation 1: | Basic insulation               |
| Potential isolation 2 between: | Ethernet and system voltage    |
| Type of potential isolation 2: | Basic insulation               |
| Potential isolation 3 between: | EtherCAT and system voltage    |
| Type of potential isolation 3: | Basic insulation               |
| Potential isolation 4 between: | SC output and system voltage   |
| Type of potential isolation 4: | Basic insulation               |
| Potential isolation 5 between: | Input and system voltage       |
| Type of potential isolation 5: | Basic insulation               |
| Potential isolation 6 between: | CANopen and system voltage     |
| Type of potential isolation 6: | Basic insulation               |
| Mechanical data                |                                |
| Housing material:              | Hot dip galvanised metal       |
| Housing material front plate:  | Hot dip galvanised metal       |
| Housing material upper part:   | Polyester film                 |
| Terminal style:                | plug-in                        |
| Height dimension:              | 270.6 mm                       |
| Width dimension:               | 60 mm                          |
| Depth dimension:               | 183 mm                         |
| Net weight:                    | 1360 g                         |
| Gross weight:                  | 2260 g                         |
| Environment                    |                                |
| REACH compliance:              | contains min. 1 SVHC-substance |
| WEEE classification (08/2018): | 5 devices (feed size < 50cm)   |
| Commercial data                |                                |
| Harmonized System Code:        | 85371091                       |
| UNSPSC 25:                     | 39122331                       |
| EAN-Code:                      | 4046548078503                  |

|                           |           |
|---------------------------|-----------|
| ECLASS version:           | ECLASS-13 |
| ECLASS Reference Feature: | 27242090  |
| ETIM Version:             | ETIM-9.0  |
| ETIM Reference Group:     | EG000024  |
| ETIM Reference Feature:   | EC002584  |
| Volume:                   | 0         |