



### Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range of product          | Modicon Premium Automation platform |
| Product or component type | Double-format PL7 processor         |
| Software designation      | PL7 Junior/Pro                      |

### Complementary

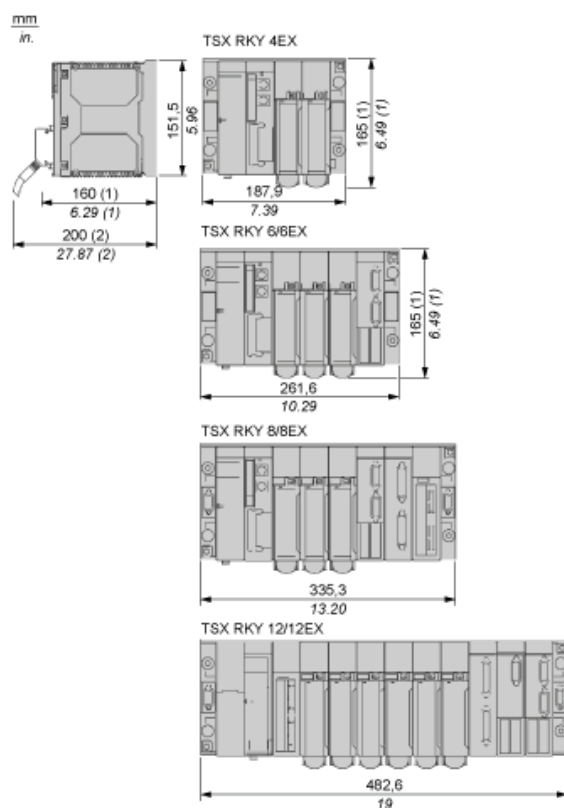
|                                        |                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of racks                        | 8 12 slots<br>16 4/6/8 slots                                                                                                                                                                                                                                                              |
| Number of slots                        | <= 128                                                                                                                                                                                                                                                                                    |
| Discrete I/O processor capacity        | 1024 I/O                                                                                                                                                                                                                                                                                  |
| Analogue I/O processor capacity        | 128 I/O                                                                                                                                                                                                                                                                                   |
| Number of application specific channel | <= 32                                                                                                                                                                                                                                                                                     |
| Number of process control channel      | <= 15 up to 45 simple loops                                                                                                                                                                                                                                                               |
| Integrated connection type             | Non isolated serial link 2 female mini DIN 19.2/115 kbit/s                                                                                                                                                                                                                                |
| Communication module processor         | 8 AS-Interface bus modules<br>3 network modules<br>2 fieldbus modules (1 if CANopen used)<br>1 CANopen bus module                                                                                                                                                                         |
| Memory description                     | PCMCIA card 384 Kwords program<br>PCMCIA card 2688 Kwords additional data storage<br>Internal RAM (without PCMCIA card) 64 Kwords program and data<br>Internal RAM (with PCMCIA card) 80 Kwords data                                                                                      |
| Maximum size of object areas           | 32 %KWi constant words located internal data<br>30.5 %MWi internal words located internal data<br>16384 %Mi located internal bits                                                                                                                                                         |
| Application structure                  | 1 fast task<br>1 master task<br>64 event tasks                                                                                                                                                                                                                                            |
| Execution time per instruction         | 2.6 µs floating points with PCMCIA card<br>2.5 µs floating points without PCMCIA card<br>0.33 µs word or fixed-point arithmetic with PCMCIA card<br>0.17 µs word or fixed-point arithmetic without PCMCIA card<br>0.17 µs Boolean with PCMCIA card<br>0.12 µs Boolean without PCMCIA card |
| Number of instructions per ms          | 6.57 Kinst/ms 100 % Boolean without PCMCIA card<br>4.7 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card<br>4.49 Kinst/ms 100 % Boolean with PCMCIA card<br>3.08 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card                                           |
| System overhead                        | 1.15 ms master task<br>0.29 ms fast task                                                                                                                                                                                                                                                  |
| Marking                                | CE                                                                                                                                                                                                                                                                                        |
| Local signalling                       | 1 LED yellow activity on the terminal port (TER)<br>1 LED red processor or system fault (ERR)<br>1 LED red I/O module or configuration fault (I/O)<br>1 LED green processor running (RUN)                                                                                                 |
| Current consumption                    | 1000 mA 5 V DC                                                                                                                                                                                                                                                                            |
| Module format                          | Double                                                                                                                                                                                                                                                                                    |
| Product weight                         | 0.52 kg                                                                                                                                                                                                                                                                                   |

## Environment

|                                       |                                                                                                                                                                                                                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | 73/23/EEC<br>89/336/EEC<br>92/31/EEC<br>93/68/EEC<br>CSA 22-2 No 142<br>CSA 22-2 No 213 Class I Division 2 Group A<br>CSA 22-2 No 213 Class I Division 2 Group B<br>CSA 22-2 No 213 Class I Division 2 Group C<br>CSA 22-2 No 213 Class I Division 2 Group D<br>IEC 61131-2<br>UL 508 |
| Product certifications                | ABS<br>BV<br>DNV<br>GL<br>LR<br>RINA<br>RMRS                                                                                                                                                                                                                                          |
| Ambient air temperature for operation | 0...60 °C                                                                                                                                                                                                                                                                             |
| Ambient air temperature for storage   | -25...70 °C                                                                                                                                                                                                                                                                           |
| Relative humidity                     | 5...95 % without condensation for storage<br>10...95 % without condensation for operation                                                                                                                                                                                             |
| Operating altitude                    | 0...2000 m                                                                                                                                                                                                                                                                            |
| Protective treatment                  | TC                                                                                                                                                                                                                                                                                    |
| IP degree of protection               | IP20                                                                                                                                                                                                                                                                                  |
| Pollution degree                      | 2                                                                                                                                                                                                                                                                                     |

## Standard and Extendable Racks for Modules Mounting

### Dimensions of Modules and Racks



(1) With screw terminal block modules.

(2) Maximum depth for all types of modules and their associated connectors.