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EcoTech



SIMATIC ET 200SP, BaseUnit BU20-P12+A0+4B, BU type B1, Packing unit: 1 unit, push-in terminals, without auxiliary terminals, bridged to the left, WxH: 20 mm x 117 mm



| General information                                   |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| Product type designation                              | BU type B1                                        |
| HW functional status                                  | FS10 and higher                                   |
| Supply voltage                                        |                                                   |
| Rated value (DC)                                      | See manual                                        |
| • For P1 and P2 bus                                   | 24 V                                              |
| • For AUX bus                                         | 24 V; Equal potential group to P1/P2 bus or PE    |
| • for process terminals                               | 24 V                                              |
| Rated value (AC)                                      | See manual                                        |
| • For P1 and P2 bus                                   | 230 V                                             |
| • For AUX bus                                         | 230 V; Equal potential group to P1/P2 bus or PE   |
| • for process terminals                               | 230 V                                             |
| external protection for power supply lines            | Yes                                               |
| Mains filter                                          |                                                   |
| • integrated                                          | No                                                |
| Current carrying capacity                             |                                                   |
| up to 60 °C, max.                                     | 10 A                                              |
| For P1 and P2 bus, max.                               | 10 A                                              |
| For AUX bus, max.                                     | 10 A                                              |
| For process terminals, max.                           | 5 A                                               |
| Hardware configuration                                |                                                   |
| Automatic encoding                                    | Yes                                               |
| Slots                                                 |                                                   |
| • Number of slots                                     | 1                                                 |
| Potential separation                                  |                                                   |
| between backplane bus and supply voltage              | Yes                                               |
| between process terminals and supply voltage          | Yes; Not applicable for process terminals 9 to 12 |
| between power bus and supply voltage                  | Yes                                               |
| Isolation                                             |                                                   |
| Isolation tested with                                 | 3 100 V DC                                        |
| Standards, approvals, certificates                    |                                                   |
| Ecological footprint                                  |                                                   |
| • environmental product declaration                   | Yes                                               |
| Global warming potential                              |                                                   |
| — global warming potential, (total) [CO2 eq]          | 0.873 kg                                          |
| — global warming potential, (during production) [CO2] | 0.866 kg                                          |

|                                                                |            |
|----------------------------------------------------------------|------------|
| eq]                                                            |            |
| — global warming potential, (during operation) [CO2 eq]        | 0 kg       |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.0011 kg |

#### Ambient conditions

|                                                 |                                                                  |
|-------------------------------------------------|------------------------------------------------------------------|
| Ambient temperature during operation            |                                                                  |
| • horizontal installation, min.                 | -30 °C                                                           |
| • horizontal installation, max.                 | 60 °C                                                            |
| • vertical installation, min.                   | -30 °C                                                           |
| • vertical installation, max.                   | 50 °C                                                            |
| Altitude during operation relating to sea level |                                                                  |
| • Installation altitude above sea level, max.   | 2 000 m; On request: Installation altitudes greater than 2 000 m |
| Absolute humidity                               |                                                                  |
| • dew point, min.                               | -60 °C; suitable for dry room applications                       |

#### Connection method

|                                                        |                  |
|--------------------------------------------------------|------------------|
| Terminals                                              |                  |
| • Terminal type                                        | Push-in terminal |
| • system-integrated shield connection                  | No               |
| • Conductor cross-section, min.                        | 0.14 mm²; AWG 26 |
| • Conductor cross-section, max.                        | 2.5 mm²; AWG 14  |
| • Number of process terminals to I/O module            | 12; Pro slot     |
| • Number of terminals to AUX bus                       | 0                |
| • Number of add-on terminals                           | 0                |
| • Number of terminals with connection to P1 and P2 bus | 0; Pro slot      |

#### Dimensions

|        |        |
|--------|--------|
| Width  | 20 mm  |
| Height | 117 mm |
| Depth  | 35 mm  |

#### Weights

|                 |      |
|-----------------|------|
| Weight, approx. | 48 g |
|-----------------|------|

#### Classifications

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-24-26-03    |
| eClass | 12      | 27-24-26-03    |
| eClass | 9.1     | 27-24-26-03    |
| eClass | 9       | 27-24-26-03    |
| eClass | 8       | 27-24-26-03    |
| eClass | 7.1     | 27-24-26-03    |
| eClass | 6       | 27-24-26-03    |
| ETIM   | 10      | EC001598       |
| ETIM   | 9       | EC001598       |
| ETIM   | 8       | EC001598       |
| ETIM   | 7       | EC001598       |
| IDEA   | 4       | 3560           |
| UNSPSC | 15      | 32-15-17-04    |

#### Approvals / Certificates

|                          |
|--------------------------|
| General Product Approval |
|--------------------------|



[Manufacturer Declaration](#)



|                          |                                |
|--------------------------|--------------------------------|
| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|



[FM](#)

[CCC-Ex](#)



[Type Examination Certificate](#)

For use in hazardous locations

Maritime application



IECEX

[Miscellaneous](#)



ABS



BUREAU  
VERITAS



DNV



LRS

Maritime application

Environment

[NK / Nippon Kaiji Kyokai](#)



RINA



RMRS

[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

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Environment



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