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SITOP SEL1200/48V/4X1-10A

SITOP SEL1200 48 V 10 A selectivity module 4-channel with switching characteristic input: 48 V DC/40 A output: 48 V DC/4x 10 A threshold value adjustable 1-10 A with monitoring interface



| input                                                                                |                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type of the power supply network                                                     | Controlled DC voltage                                                                                                                                                             |
| supply voltage at DC rated value                                                     | 48 V                                                                                                                                                                              |
| input voltage at DC                                                                  | 40 ... 56 V                                                                                                                                                                       |
| overvoltage overload capability                                                      | 60 V                                                                                                                                                                              |
| input current at rated input voltage 24 V rated value                                | 40 A                                                                                                                                                                              |
| output                                                                               |                                                                                                                                                                                   |
| voltage curve at output                                                              | controlled DC voltage                                                                                                                                                             |
| formula for output voltage                                                           | $V_{in} - \text{approx. } 0.2 \text{ V}$                                                                                                                                          |
| relative overall tolerance of the voltage note                                       | In accordance with the supplying input voltage                                                                                                                                    |
| number of outputs                                                                    | 4                                                                                                                                                                                 |
| output current up to 60 °C per output rated value                                    | 10 A; +60 ... +70 °C: Derating 3%/K                                                                                                                                               |
| adjustable current response value current of the current-dependent overload release  | 1 ... 10 A                                                                                                                                                                        |
| type of response value setting                                                       | via potentiometer                                                                                                                                                                 |
| response delay maximum                                                               | 5 s                                                                                                                                                                               |
| product feature parallel switching of outputs                                        | Yes                                                                                                                                                                               |
| type of outputs connection                                                           | Connection of all outputs after ramp-up of the supply voltage > 31 V; delay time of 25 ms, 200 ms, 500 ms or "load-optimized" can be set via DIP switch for sequential connection |
| efficiency                                                                           |                                                                                                                                                                                   |
| efficiency in percent                                                                | 99 %                                                                                                                                                                              |
| power loss [W] at rated output voltage for rated value of the output current typical | 10 W                                                                                                                                                                              |
| switch-off characteristic                                                            |                                                                                                                                                                                   |
| switching characteristic                                                             |                                                                                                                                                                                   |
| • of the excess current                                                              | $I_{out} = 1.0 \dots 1.5 \times \text{set value}$ , switch-off after approx. 5 s                                                                                                  |
| • of the current limitation                                                          | $I_{out} = 1.5 \times \text{set value}$ , switch-off after typ. 100 ms                                                                                                            |
| • of the immediate switch-off                                                        | $I_{out} > \text{set value}$ and $V_{in} < 38 \text{ V}$ , switch-off after approx. 0.5 ms                                                                                        |
| design of the reset device/resetting mechanism                                       | via sensor per output                                                                                                                                                             |
| remote reset function                                                                | Non-electrically isolated 24/48 V input (signal level "high" at > 15 V)                                                                                                           |
| protection and monitoring                                                            |                                                                                                                                                                                   |
| fuse protection type at input                                                        | 15 A per output (not accessible)                                                                                                                                                  |
| display version for normal operation                                                 | Three-color LED per output: green LED for "Output switched through"; yellow LED for "Output switched off manually"; red LED for "Output switched off due to overcurrent"          |
| design of the switching contact for signaling function                               | Floating common signal contact or status signal output (pulse/pause signal that can be evaluated via SIMATIC function block)                                                      |
| safety                                                                               |                                                                                                                                                                                   |

|                                                                               |                                                                                                    |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| galvanic isolation between input and output at switch-off                     | No                                                                                                 |
| standard for safety                                                           | according to EN 62368-1                                                                            |
| operating resource protection class                                           | Class III                                                                                          |
| protection class IP                                                           | IP20                                                                                               |
| standard                                                                      |                                                                                                    |
| • for emitted interference                                                    | EN 61000-6-3                                                                                       |
| • for interference immunity                                                   | EN 61000-6-2                                                                                       |
| <b>standards, specifications, approvals</b>                                   |                                                                                                    |
| certificate of suitability                                                    |                                                                                                    |
| • CE marking                                                                  | Yes                                                                                                |
| • UL approval                                                                 | Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259 |
| • CSA approval                                                                | Yes; CSA C22.2 No. 62368-1                                                                         |
| • EAC approval                                                                | Yes                                                                                                |
| type of certification                                                         |                                                                                                    |
| • CB-certificate                                                              | Yes                                                                                                |
| MTBF at 40 °C                                                                 | 595 000 h                                                                                          |
| <b>standards, specifications, approvals hazardous environments</b>            |                                                                                                    |
| certificate of suitability                                                    |                                                                                                    |
| • IECEx                                                                       | No                                                                                                 |
| • ATEX                                                                        | No                                                                                                 |
| <b>standards, specifications, approvals marine classification</b>             |                                                                                                    |
| shipbuilding approval                                                         | No                                                                                                 |
| <b>standards, specifications, approvals Environmental Product Declaration</b> |                                                                                                    |
| Environmental Product Declaration                                             | Yes                                                                                                |
| global warming potential [CO2 eq]                                             |                                                                                                    |
| • total                                                                       | 326.5 kg                                                                                           |
| • during manufacturing                                                        | 20.9 kg                                                                                            |
| • during operation                                                            | 344.2 kg                                                                                           |
| • after end of life                                                           | 0.33 kg                                                                                            |
| Siemens Eco Profile (SEP)                                                     | Siemens EcoTech                                                                                    |
| <b>ambient conditions</b>                                                     |                                                                                                    |
| ambient temperature                                                           |                                                                                                    |
| • during operation                                                            | -40 ... +70; with natural convection; +60 ... +70 °C: Derating 3%/K                                |
| • during transport                                                            | -40 ... +85                                                                                        |
| • during storage                                                              | -40 ... +85                                                                                        |
| environmental category according to IEC 60721                                 | Climate class 3K3, 5 ... 95% no condensation                                                       |
| <b>connection method</b>                                                      |                                                                                                    |
| type of electrical connection                                                 | Push-in                                                                                            |
| • at input                                                                    | 24V1, 24V2: push-in for 0.5 ... 16 mm²; 0V1, 0V2: push-in for 0.5 ... 4 mm²                        |
| • at output                                                                   | Output 1 ... 4: push-in for 0.5 ... 4 mm²                                                          |
| • for auxiliary contacts                                                      | RST: push-in for 0.2 ... 1.5 mm²                                                                   |
| • for signaling contact                                                       | 13, 14: push-in for 0.2 ... 1.5 mm²                                                                |
| <b>mechanical data</b>                                                        |                                                                                                    |
| width × height × depth of the enclosure                                       | 45 × 135 × 125 mm                                                                                  |
| installation width × mounting height                                          | 45 mm × 225 mm                                                                                     |
| required spacing                                                              |                                                                                                    |
| • top                                                                         | 45 mm                                                                                              |
| • bottom                                                                      | 45 mm                                                                                              |
| • left                                                                        | 0 mm                                                                                               |
| • right                                                                       | 0 mm                                                                                               |
| fastening method                                                              | Snaps onto DIN rail EN 60715 35x7.5/15                                                             |
| • DIN-rail mounting                                                           | Yes                                                                                                |
| • S7 rail mounting                                                            | No                                                                                                 |
| • wall mounting                                                               | No                                                                                                 |
| housing can be lined up                                                       | Yes                                                                                                |
| net weight                                                                    | 0.3 kg                                                                                             |
| <b>further information internet links</b>                                     |                                                                                                    |
| internet link                                                                 |                                                                                                    |
| • to website: Industry Mall                                                   | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                  |

- to web page: selection aid TIA Selection Tool
- to web page: power supplies
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/tstcloud>  
<https://siemens.com/sitop>  
<https://siemens.com/cax>  
<https://support.industry.siemens.com>

#### additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

#### security information

security information

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#### Classifications

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 14      | 27-37-18-02    |
| eClass | 12      | 27-37-18-02    |
| eClass | 9.1     | 27-37-18-02    |
| eClass | 9       | 27-37-18-02    |
| eClass | 8       | 27-37-18-02    |
| eClass | 7.1     | 27-37-18-02    |
| eClass | 6       | 27-37-18-02    |
| ETIM   | 9       | EC001440       |
| ETIM   | 8       | EC001440       |
| ETIM   | 7       | EC001440       |
| IDEA   | 4       | 4727           |
| UNSPSC | 15      | 39-12-15-21    |

#### Approvals Certificates

##### General Product Approval



[Manufacturer Declaration](#)



##### General Product Approval

##### Environment



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