SIEMENS

## Data sheet 6EP4438-7EB00-3DX0



SITOP SEL1400/8X2-10A

SITOP SEL1400 10 A selectivity module 8-channel with limiting characteristic input: 24 V DC/60 A output: 24 V DC/8x 10 A threshold adjustable 2-10 A with monitoring interface

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|---|---|
| **General information** | |
| Technical Product Detail Page | https://i.siemens.com/1P6EP4438-7EB00-3DX0 |
| product brand name | SITOP |
| product type designation | SEL1400 |
| product designation | SITOP Selectivity module |
| type of current supply | selectivity module, 8 x 2 ... 10 A com. sign. contact or diagnostics monitor |
| **input** | |
| type of the power supply network | Controlled DC voltage |
| supply voltage at DC rated value | 24 V |
| input voltage at DC | 20.4 ... 30 V |
| overvoltage overload capability | 35 V |
| input current at rated input voltage 24 V rated value | 60 A |
| **output** | |
| voltage curve at output | controlled DC voltage |
| formula for output voltage | Vin - approx. 0.2 V |
| relative overall tolerance of the voltage note | In accordance with the supplying input voltage |
| number of outputs | 8 |
| output current up to 60 °C per output rated value | 10 A; +60 ... +70 °C: Derating 2%/K |
| adjustable current response value current of the current-dependent overload release | 2 ... 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 | switch-on of all outputs after power-up of the supply voltage > 20 V, delay time of 25 ms, 200 ms, 500 ms, or "load-optimized" via DIP switch configurable for sequential switch-on |
| **efficiency** | |
| efficiency in percent | 98 % |
| power loss [W] at rated output voltage for rated value of the output current typical | 18 W |
| **switch-off characteristic** | |
| switching characteristic | |
| • of the excess current | Iout = 1.0 ...1.5 x set value, switch-off after approx. 5 s |
| • of the current limitation | Iout = 1.5 x set value, switch-off after typ. 100 ms |
| • of the immediate switch-off | Iout > set value and Vin < 20 V, switch-off after approx. 0.5 ms |
| design of the reset device/resetting mechanism | via sensor per output |
| remote reset function | non-isolated 24 V input (signal level "high" at > 15 V) |


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| **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 |
| **standards, specifications, approvals** | |
| 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 |
| ● UKCA marking | Yes |
| ● EAC approval | Yes |
| type of certification | |
| ● CB-certificate | Yes |
| MTBF at 40 °C | 363 000 h |
| **standards, specifications, approvals hazardous environments** | |
| certificate of suitability | |
| ● IECEx | No |
| ● ATEX | No |
| **standards, specifications, approvals marine classification** | |
| shipbuilding approval | Yes |
| Marine classification association | |
| ● Det Norske Veritas (DNV) | Yes |
| **standards, specifications, approvals Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| ● total | 506.7 kg |
| ● during manufacturing | 13.1 kg |
| ● during operation | 493.2 kg |
| ● after end of life | 0.3 kg |
| Siemens eco profile (SEP) | Siemens EcoTech |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +70 °C; with natural convection |
| ● during transport | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| **connection method** | |
| 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 ... 8: 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 |
| **mechanical data** | |
| 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 |


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|---|---|
| ● 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 |

**further information internet links**

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| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: power supplies | https://siemens.com/sitop |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| identification link | Yes; acc. to IEC 61406-1:2022 |

**additional information**

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

**security information**

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| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-37-18-02 |
| 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 | 10 | EC001440 |
| ETIM | 9 | EC001440 |
| ETIM | 8 | EC001440 |
| ETIM | 7 | EC001440 |
| IDEA | 4 | 4727 |
| UNSPSC | 15 | 39-12-15-21 |

**Approvals Certificates**

**General Product Approval**

CB CE UKCA Manufacturer Declaration Declaration of Conformity China RoHS


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| General Product Approval | Maritime application | Environment |
| --- | --- | --- |
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