

Siemens  
EcoTech



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



Technical Product Detail Page

<https://i.siemens.com/1P6EP4448-7FB00-3CX0>

### 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	<ul style="list-style-type: none"> <li>• of the excess current I<sub>out</sub> = 1.0 ... 1.5 x set value, switch-off after approx. 5 s</li> <li>• of the current limitation I<sub>out</sub> = 1.5 x set value, switch-off after typ. 100 ms</li> <li>• of the immediate switch-off I<sub>out</sub> &gt; set value and V<sub>in</sub> &lt; 38 V, switch-off after approx. 0.5 ms</li> </ul>
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

#### 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	595 000 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 [CO <sub>2</sub> eq]	
• total	326.5 kg
• during manufacturing	13.2 kg
• during operation	313 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; +60 ... +70 °C: Derating 3%/K
• 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 mm <sup>2</sup> ; 0V1, 0V2: push-in for 0.5 ... 4 mm <sup>2</sup>
• at output	Output 1 ... 4: push-in for 0.5 ... 4 mm <sup>2</sup>
• for auxiliary contacts	RST: push-in for 0.2 ... 1.5 mm <sup>2</sup>
• for signaling contact	13, 14: push-in for 0.2 ... 1.5 mm <sup>2</sup>

#### 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
• 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	
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to web page: power supplies</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://siemens.com/sitop">https://siemens.com/sitop</a> <a href="https://siemens.com/cax">https://siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>additional information</b>	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>	
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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)

<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	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**



[Manufacturer Declaration](#)



[China RoHS](#)



**Maritime application Environment**



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