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EcoTech



SITOP SEL1200/8X2-10A/EX

SITOP SEL1200 EX 10A selectivity module 8-channel switching characteristic input: 24 V DC/60 A output: 24 V DC/8 x 10 A threshold adjustable 2-10 A with monitoring interface



Technical Product Detail Page

<https://i.siemens.com/1P6EP4438-7FC00-3DX0>

### 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	$V_{in} - \text{approx. } 0.2 \text{ V}$
relative overall tolerance of the voltage note	In accordance with the supplying input voltage
number of outputs	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	Connection of all outputs after ramp-up of the supply voltage > 20 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	98 %
power loss [W] at rated output voltage for rated value of the output current typical	18 W

### switch-off characteristic

switching characteristic	I <sub>out</sub> > 2.0 x set value, switch-off after approx. 30 ms, I <sub>out</sub> > 1.8 x set value, switch-off after approx. 0.1 s, I <sub>out</sub> > 1.5 x set value, switch-off after approx. 1 s, I <sub>out</sub> > 1.0 x set value, switch-off after approx. 5 s
<ul style="list-style-type: none"> <li>of the excess current</li> </ul>	
<ul style="list-style-type: none"> <li>of the immediate switch-off</li> </ul>	I <sub>out</sub> > set value and V <sub>in</sub> < 20 V, switch-off after approx. 8 ms
design of the reset device/resetting mechanism	via sensor per output
remote reset function	Non-electrically isolated 24 V input (signal level "high" at > 15 V)

### protection and monitoring

fuse protection type at input	16 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)
<b>safety</b>	
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	
<ul style="list-style-type: none"> <li>for emitted interference</li> <li>for interference immunity</li> </ul>	EN 61000-6-3 EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>CE marking</li> <li>UL approval</li> <li>UKCA marking</li> <li>EAC approval</li> </ul>	Yes Yes; UR (UL 2367) File E328600; cULus-listed (UL 508, CSA C22.2 No. 107.1) File E197259 Yes Yes
type of certification	
<ul style="list-style-type: none"> <li>CB-certificate</li> </ul>	Yes
MTBF at 40 °C	925 000 h
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> <li>ATEX</li> <li>ULhazloc approval</li> <li>CCC for hazardous zone according to GB standard</li> </ul>	Yes; IECEX Ex ec IIC T4 Gc Yes; ATEX (Ex) II 3G Ex ec IIC T4 Gc Yes Yes
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<b>standards, specifications, approvals Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	576.9 kg 13.2 kg 563.4 kg 0.3 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>	-40 ... +70 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>	
type of electrical connection	Push-in
<ul style="list-style-type: none"> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> <li>for signaling contact</li> </ul>	24V1, 24V2: push-in for 0.5 ... 16 mm <sup>2</sup> ; 0V1, 0V2: push-in for 0.5 ... 4 mm <sup>2</sup> Output 1 ... 8: push-in for 0.5 ... 4 mm <sup>2</sup> RST: push-in for 0.2 ... 1.5 mm <sup>2</sup> 13, 14: push-in for 0.2 ... 1.5 mm <sup>2</sup>
<b>mechanical data</b>	
width × height × depth of the enclosure	45 × 135 × 125 mm
installation width × mounting height	45 mm × 225 mm
required spacing	
<ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	45 mm 45 mm 0 mm 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

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	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: power supplies	<a href="https://siemens.com/sitop">https://siemens.com/sitop</a>
• to website: CAx-Download-Manager	<a href="https://siemens.com/cax">https://siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### additional information

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

security information	<p>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)</p>
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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	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](#)



EG-Konf.



[China RoHS](#)



UL

For use in hazardous locations	Maritime application
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[CCC-Ex](#)



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