



SITOP SEL1600 expansion/4x0.5-10A

SITOP SEL1600 4x10 A expansion module 4-channel input: 24 V DC/40 A output: 24 V DC/ 4x 10 A setting range: 0.5-10 A incl. connection set 6EP4990-8KK00-0XU0

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP4437-8FB00-0CY0
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	40 A
output	
voltage curve at output	controlled DC voltage
formula for output voltage	$U_e - \text{approx. } 0.25 \text{ V}$
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 2%/K
adjustable current response value current of the current-dependent overload release	0.5 ... 10 A
type of response value setting	via display and IO-Link interface on the basic module
response delay maximum	10 s
product feature parallel switching of outputs	Yes; Two outputs located next to each other within one module
type of outputs connection	switch-on of all outputs after power-up of the supply voltage > 20 V, for sequential switch-on, delay time of 25 ms, 100 ms, or "load-optimized" configurable via display and IO-Link interface, user-defined times can be configured via IO-Link interface
efficiency	
efficiency in percent	98 %
power loss [W] at rated output voltage for rated value of the output current typical	10 W
switch-off characteristic	
switching characteristic	switch-off characteristic selectable: $I_a = 1.0 \dots 1.25 \times \text{set value}$, shutdown after typ. 10 s; $I_a = 1.0 \dots 1.5 \times \text{set value}$, shutdown after typ. 5 s; $I_a = 1.0 \dots 1.7 \times \text{set value}$, shutdown after typ. 1 s
• of the excess current	
• of the current limitation	
• of the immediate switch-off	$I_{out} > \text{set value}$ and $V_{in} < 20 \text{ V}$, switch-off after approx. 0.5 ms
design of the reset device/resetting mechanism	via buttons for each output and IO-Link interface on the basic module
remote reset function	via RESET contact on the basic module
protection and monitoring	
fuse protection type at input	15 A per output (not accessible)
display version for normal operation	3-color LED per output
design of the switching contact for signaling function	via common signaling contact basic module
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	
<ul style="list-style-type: none"> • for emitted interference • for interference immunity 	EN 61000-6-3 EN 61000-6-2

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> • CE marking • UL approval 	Yes Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259
<ul style="list-style-type: none"> • UKCA marking 	Yes
type of certification	
<ul style="list-style-type: none"> • CB-certificate 	Yes
MTBF at 40 °C	600 000 h

standards, specifications, approvals hazardous environments

certificate of suitability	
<ul style="list-style-type: none"> • IECEx • ATEX 	No No

standards, specifications, approvals marine classification

shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	Yes

standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	337.8 kg 24.2 kg 313 kg 0.55 kg

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	-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

connection method

type of electrical connection	screw terminal
<ul style="list-style-type: none"> • at input • at output 	-1, +1, +2, -2: one screw terminal each for 0.5 ... 16 mm ² +, -: each output 1 common screw plug-in terminal for 0.5 ... 2.5 mm ²
removable terminal at input	No
removable terminal at output	Yes

mechanical data

width × height × depth of the enclosure	45 × 145 × 125 mm
installation width × mounting height	45 mm × 225 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	40 mm 40 mm 0 mm 0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
<ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting 	Yes No No
housing can be lined up	Yes
net weight	0.4 kg

accessories

accessories included	6EP4990-8KK00-0XU0: SITOP SEL1600 Connection Set for SEL1600 system,
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	contents: COM connecting cable and input wiring bracket
electrical accessories	6EP4990-8KK00-0XU0: SITOP SEL1600 Connection Set for SEL1600 system, contents: COM connecting cable and input wiring bracket (only as a spare part, already included with the expansion module)

further information internet links

internet link	
<ul style="list-style-type: none"> to website: Industry Mall to web page: selection aid TIA Selection Tool to web page: power supplies to website: CAx-Download-Manager to website: Industry Online Support 	https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/sitop https://siemens.com/cax https://support.industry.siemens.com

identification link	Yes; acc. to IEC 61406-1:2022
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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 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)</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	4130
UNSPSC	15	32-15-17-06

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)

[China RoHS](#)



Maritime application	Environment
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