SIEMENS

Data sheet 6EP4437-8FB00-4CY0



SITOP SEL1600 basic/4X0.5-10A/IOL

SITOP SEL1600 4x10 A IOL basic module 4-channel input: 24 V DC/40 A output: 24 V DC/4x 10 A setting range: 0.5-10 A with IO-Link interface

Technical Product Detail Page	https://i.siemens.com/1P6EP4437-8FB00-4CY0
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; with expansion module max. 60 A
output	
voltage curve at output	controlled DC voltage
formula for output voltage	Ue - approx. 0.25 V
relative overall tolerance of the voltage note	In accordance with the supplying input voltage
number of outputs	4; expandable up to 40 outputs via expansion modules
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
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 the supply voltage ramps up > 20 V, for sequential switching delay time of 25 ms, 100 ms, or "load-optimized" can be set 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	
● of the excess current	switch-off characteristic selectable: Ia = 1.0 ... 1.25 x set value, shutdown after typ. 10 s; Ia = 1.0 ... 1.5 x set value, shutdown after typ. 5 s; Ia = 1.0 ... 1.7 x set value, shutdown after typ. 1 s
● of the current limitation	Ia = 1.8 x set value, switch-off after typ. 10-100 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 buttons for each output and IO-Link interface
remote reset function	Non-electrically isolated 24 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	display and 3-color LEDs each for operational, fault and communication status as well as 3-color LEDs per output
design of the switching contact for signaling function	isolated common signaling contact (NO contact), contact rating capacity 30 V/0.1 A

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interfaces	
product function communication function	Yes
design of the interface	IO-Link
protocol is supported IO-Link protocol	Yes
IO-Link transfer rate	COM3 (230.4 kBaud)
number of IO-Link ports	1
point-to-point cycle time between master and IO-Link device minimum	5 ms
data volume	
● of the address range of the outputs with cyclical transfer for all IO-Link ports maximum	25 byte
● of the address range of the inputs with cyclical transfer for all IO-Link ports maximum	29 byte
protocol between master and IO-Link device Version 1.1	Yes
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
type of certification	
● CB-certificate	Yes
MTBF at 40 °C	360 000 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	338 kg
● during manufacturing	24.4 kg
● during operation	313 kg
● after end of life	0.55 kg
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	Screw-type terminals and Push-in
● at input	-1, +1, +2, -2: one screw terminal each for 0.5 ... 16 mm²
● at output	+, -: each output 1 common screw plug-in terminal for 0.5 ... 2.5 mm²
● for auxiliary contacts	RST: push-in for 0.5 ... 1.5 mm²
● for signaling contact	13, 14: a push-in terminal each for 0.5 ... 1.5 mm²
removable terminal at input	No
removable terminal at output	Yes

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design of the interface for communication	L+, C/Q, L- (IO-Link): 1 push-in terminal each for 0.2 ... 1.5 mm²
mechanical data	
width × height × depth of the enclosure	63 × 145 × 125 mm
installation width × mounting height	63 mm × 225 mm
required spacing	
● top	40 mm
● bottom	40 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	0.4 kg
accessories	
electrical accessories	6EP4990-8KK10-0XU0: SITOP SEL1600 Connection Set for connection to PSU8400 20A, contents: COM connecting cable and input wiring bracket; 6EP4990-8KK20-0XU0: SITOP SEL1600 Connection Set for connection to PSU8400 40A, contents: COM connecting cable and input wiring bracket; 6EP4990-8KK30-0XU0: SITOP SEL1600 Connection Set for connection of two power supplies PSU8400, contents: 2x short and 1x long COM connecting cable
further information internet links	
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
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	
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	14	27-04-07-92
eClass	12	27-04-07-92
eClass	9.1	27-04-92-90
eClass	9	27-04-92-90
eClass	8	27-04-92-90
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	10	EC002584

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ETIM	9	EC002584
ETIM	8	EC002584
ETIM	7	EC002584
IDEA	4	4130
UNSPSC	15	32-15-17-06

Approvals Certificates

General Product Approval

Manufacturer Declaration

Maritime application

Environment

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