SIEMENS

Data sheet 6EP4438-7EC00-3DX0



SITOP SEL1400/8X2-10A/EX

SITOP SEL1400 EX 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

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP4438-7EC00-3DX0
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; UR (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	Yes; IECEx Ex ec IIC T4 Gc
● ATEX	Yes; ATEX (Ex) II 3G Ex ec IIC T4 Gc
● ULhazloc approval	Yes
● CCC for hazardous zone according to GB standard	Yes
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

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● 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

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
identification link	Yes; acc. to IEC 61406-1:2022

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	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

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Manufacturer Declaration

China RoHS

For use in hazardous locations

Maritime application

Miscellaneous

CCC-Ex

Environment

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