

SITOP SEL1400 SELECTIVITY MODULE 8* 10A
 SITOP SEL1400 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



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
adjustable pick-up value current / of the current-dependent overload release	2 ... 10 A
type of response value setting	via potentiometer
product feature	
<ul style="list-style-type: none"> • parallel switching of outputs • bridging of equipments 	<p>Yes</p> <p>No</p>

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
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Efficiency

efficiency in percent	98 %
power loss [W] / at rated output current / for rated value of the output current / typical	18 W

Switch-off characteristic per output

switching characteristic	<ul style="list-style-type: none"> • of the excess current • of the current limitation • of the immediate switch-off 	<p>$I_{out} = 1.0 \dots 1.5 \times \text{set value}$, switch-off after approx. 5 s</p> <p>$I_{out} = 1.5 \times \text{set value}$, switch-off after typ. 100 ms</p> <p>$I_{out} > \text{set value}$ and $V_{in} < 20 \text{ V}$, switch-off after approx. 0.5 ms</p>
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	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 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 60950-1 and EN 50178
operating resource protection class	Class III
protection class IP	IP20

Approvals

certificate of suitability	<ul style="list-style-type: none"> • CE marking • UL approval • CSA-approval • ATEX 	<p>Yes</p> <p>Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259</p> <p>Yes; CSA 22.2 60950-1</p> <p>Yes; IECEx Ex ec IIC T4 Gc; ATEX (EX) II 3G Ex ec IIC T4 Gc; cCSAus Class I, Div. 2, Group ABCD, T4</p>
certificate of suitability	<ul style="list-style-type: none"> • IECEx 	Yes

EMC

standard	<ul style="list-style-type: none"> • for emitted interference • for interference immunity 	<p>EN 61000-6-3</p> <p>EN 61000-6-2</p>
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environmental conditions

ambient temperature	
• during operation	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
environmental category / acc. to IEC 60721	Climate class 3K3, 5 ... 95% no condensation

Mechanics

type of electrical connection	Push-in
• at input	24V1, 24V2: push-in for 0.5 ... 16 mm ² ; 0V1, 0V2: push-in for 0.5 ... 4 mm ²
• at output	1 - 8: push-in for 0.5 ... 4 mm ²
• for signaling contact	13, 14: push-in for 0.2 ... 1.5 mm ²
• for auxiliary contacts	RST: push-in for 0.2 ... 1.5 mm ²
width / of the enclosure	45 mm
height / of the enclosure	135 mm
depth / of the enclosure	125 mm
installation width	45 mm
mounting height	225 mm
required spacing	
• top	45 mm
• bottom	45 mm
• left	0 mm
• right	0 mm
net weight	0.5 kg
mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF / at 40 °C	363 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)