

SITOP SEL1400 SELEKTIVITY MODUL 8* 5A
 SITOP SEL1400 5 A Selectivity module 8-channel with limiting characteristic Input: 24 V DC/40 A Output: 24 V DC/8x 5 A Threshold adjustable 1-5 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
Overtoltage 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	$V_{in} - \text{approx. } 0.2 \text{ V}$
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	5 A
Adjustable pick-up value current / of the current-dependent overload release	1 ... 5 A
Type of response value setting	via potentiometer
Product feature	
<ul style="list-style-type: none"> • parallel switching of outputs 	Yes
<ul style="list-style-type: none"> • bridging of equipments 	No

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	10 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	8 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	
<ul style="list-style-type: none"> during operation during transport during storage 	<p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
Environmental category / acc. to IEC 60721	Climate class 3K3, 5 ... 95% no condensation

Mechanics

Type of electrical connection	Push-in
<ul style="list-style-type: none"> at input at output for signaling contact for auxiliary contacts 	<p>24V1, 24V2: push-in for 0.5 ... 16 mm²; 0V1, 0V2: push-in for 0.5 ... 4 mm²</p> <p>1 - 8: push-in for 0.5 ... 4 mm²</p> <p>13, 14: push-in for 0.2 ... 1.5 mm²</p> <p>RST: push-in for 0.2 ... 1.5 mm²</p>
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	
<ul style="list-style-type: none"> top bottom left right 	<p>45 mm</p> <p>45 mm</p> <p>0 mm</p> <p>0 mm</p>
Net weight	0.3 kg
Mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)