SIEMENS

Data sheet 6EP4438-7EB00-3DX0

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	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
Adjustable pick-up value current / of the current-dependent overload release	2 ... 10 A
Type of response value setting	via potentiometer
Product feature	
• parallel switching of outputs	Yes
• 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
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	
• 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-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	
• CE marking	Yes
• UL approval	Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259
• CSA-approval	Yes; CSA 22.2 60950-1
• ATEX	Yes; IECEx Ex ec IIC T4 Gc; ATEX (EX) II 3G Ex ec IIC T4 Gc; cCSAus Class I, Div. 2, Group ABCD, T4
Certificate of suitability	
• IECEx	Yes
EMC	
Standard	
• for emitted interference	EN 61000-6-3
• for interference immunity	EN 61000-6-2

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 mm²; 0V1, 0V2: push-in for 0.5 ... 4 mm²
• at output	1 - 8: push-in for 0.5 ... 4 mm²
• for signaling contact	13, 14: push-in for 0.2 ... 1.5 mm²
• for auxiliary contacts	RST: push-in for 0.2 ... 1.5 mm²
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)