

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

| 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 current response 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   |
| 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 voltage for rated value of the output current typical | 18 W  |
| Switch-off characteristic per output   |   |
| switching characteristic   | <ul style="list-style-type: none"> <li>• of the excess current <math>I_{out} = 1.0 \dots 1.5 \times \text{set value}</math>, switch-off after approx. 5 s</li> <li>• of the current limitation <math>I_{out} = 1.5 \times \text{set value}</math>, switch-off after typ. 100 ms</li> <li>• of the immediate switch-off <math>I_{out} &gt; \text{set value}</math> and <math>V_{in} &lt; 20 \text{ V}</math>, switch-off after approx. 0.5 ms</li> </ul> |
| 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 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 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"> <li>• CE marking Yes</li> <li>• UL approval No</li> <li>• CSA approval No</li> <li>• ATEX Yes</li> </ul>   |
| certificate of suitability   |   |

|   |  |
|---|--|
| • IECEX                                       | Yes  |
| <b>EMC</b>                                    |  |
| standard                                      |  |
| • for emitted interference                    | EN 61000-6-3   |
| • for interference immunity                   | EN 61000-6-2   |
| <b>environmental conditions</b>               |  |
| ambient temperature                           |  |
| • during operation                            | -25 ... +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   |
| <b>Mechanics</b>                              |  |
| type of electrical connection                 | Push-in  |
| • at input                                    | 24V1, 24V2: push-in for 0.5 ... 16 mm <sup>2</sup> ; 0V1, 0V2: push-in for 0.5 ... 4 mm <sup>2</sup> |
| • at output                                   | 1 - 8: push-in for 0.5 ... 4 mm <sup>2</sup>   |
| • for signaling contact                       | 13, 14: push-in for 0.2 ... 1.5 mm <sup>2</sup>  |
| • for auxiliary contacts                      | RST: push-in for 0.2 ... 1.5 mm <sup>2</sup>   |
| 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                                    | 0.3 kg   |
| fastening method                              | 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)    |

