MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6EP4438-7FB00-3DX0

SITOP SEL1200 EIGHT-CHANNEL SELECTIVITY MODULE

Used with the applicable SITOP SEL1200 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6EP4438-7FB00-3DX0 official product data; applicable specification pages.

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Data sheet 6EP4438-7FB00-3DX0



SITOP SEL1200/8X2-10A

SITOP SEL1200 selectivity module 8-channel switching characteristic input: 24 V DC/60 A output: 24 V DC/8 x 10 A threshold adjustable 2-10 A with monitoring interface *Ex approval no longer

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
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	
● of the excess current	Iout > 2.0 x set value, switch-off after approx. 30 ms, Iout > 1.8 x set value, switch-off after approx. 0.1 s, Iout > 1.5 x set value, switch-off after approx. 1 s, Iout > 1.0 x set value, switch-off after approx. 5 s
● of the immediate switch-off	Iout > set value and Vin < 20 V, switch-off after approx. 8 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	16 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

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Approvals	
● 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 C22.2 60950-1
● EAC approval	Yes
● CB-certificate	Yes
certificate of suitability	
● IECEx	No
● ATEX	No
shipbuilding approval	No
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 according 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
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
● standard rail mounting	Yes
● S7 rail mounting	No
● wall mounting	No
product feature of the enclosure housing can be lined up	Yes
net weight	0.3 kg
MTBF at 40 °C	925 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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