SIEMENS

Data sheet 6EP1961-2BA31

SITOP PSE200U/4X0.5-3A/SEO

SITOP PSE200U 3 A Selectivity module 4-channel input: 24 V DC/12 A output: 24 V DC/4x 3 A threshold value adjustable 0.5-3 A with status message for each output *Ex approval no longer available*

Input	
type of the power supply network	Controlled DC voltage
supply voltage at DC rated value	24 V
input voltage at DC	22 ... 30 V
overvoltage overload capability	35 V
input current at rated input voltage 24 V rated value	12 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	4
output current up to 60 °C per output rated value	3 A
adjustable current response value current of the current-dependent overload release	0.5 ... 3 A
type of response value setting	via potentiometer
product feature parallel switching of outputs	No
type of outputs connection	Simultaneous connection of all outputs after power up of the supply voltage > 20 V, delay time of 25 ms, 100 ms or adjustable "load optimised" via DIP switch for sequential connection
Efficiency	
efficiency in percent	97 %
power loss [W] at rated output voltage for rated value of the output current typical	9 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
residual current at switch-off typical	1 mA
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	5 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	Status signal output (pulse/pause signal, 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
● ATEX	No
certificate of suitability	
● IECEx	No
type of certification CB-certificate	Yes
certificate of suitability	
● EAC approval	Yes
● shipbuilding approval	Yes
shipbuilding approval	DNV GL, ABS
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● DNV GL	Yes
EMC	
standard	
● for emitted interference	EN 55022 Class B
● for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
● during operation	-25 ... +60 °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	screw-type terminals
● at input	+24 V: 2 screw terminals for 0.5 ... 16 mm²; 0 V: 2 screw terminals for 0.5 ... 4 mm²
● at output	Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm²
● for signaling contact	1 screw terminal for 0.5 ... 4 mm²
● for auxiliary contacts	Remote reset: 1 screw terminal for 0.5 ... 4 mm²
width of the enclosure	72 mm
height of the enclosure	80 mm
depth of the enclosure	72 mm
installation width	72 mm
mounting height	180 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
net weight	0.2 kg
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	755 915 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)