SIEMENS

Data sheet 6ES7148-4PC00-0HA0



SIMATIC ET200PRO PS/3AC/DC24V/8A/IP67

SIMATIC ET200pro PS Regulated power supply in protection type IP67 input: 3 AC 400-480 V output: 24 V/8 A DC

Input	
type of the power supply network	3-phase AC
supply voltage at AC	
● minimum rated value	400 V
● maximum rated value	480 V
● initial value	340 V; 320 ... 340 V for max. 1 min
● full-scale value	550 V
design of input wide range input	Yes
overvoltage overload capability	Implemented internally with varistors
operating condition of the mains buffering	at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	
● 1 rated value	50 Hz
● 2 rated value	60 Hz
line frequency	45 ... 66 Hz
input current	
● at rated input voltage 400 V	0.5 A
current limitation of inrush current at 25 °C maximum	40 A
I2t value maximum	3.5 $A^2 \cdot s$
fuse protection type	T 4 A
● in the feeder	Required: Circuit breaker 3RV2011-1DA10 or 3RV2711-1DD10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
● at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
● on slow fluctuation of input voltage	0.5 %
● on slow fluctuation of ohm loading	0.5 %
residual ripple	
● maximum	200 mV
voltage peak	
● maximum	250 mV
product function output voltage adjustable	No
type of output voltage setting	-
display version for normal operation	Green LED for 24 V OK
type of signal at output	max. 30 V, 10 mA; Power-Good (High-Pegel 1L+ for Vout in range 21.3 ... 29 V); Overtemperature warning at least 30 s before switch-off (high level 1L+

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	when the max. internal temperature is exceeded)
behavior of the output voltage when switching on	Overshoot of Vout < 2 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
● typical	40 ms
output current	
● rated value	8 A
● rated range	0 ... 8 A
supplied active power typical	192 W
short-term overload current	
● on short-circuiting during the start-up typical	50 A
● at short-circuit during operation typical	50 A
duration of overloading capability for excess current	
● on short-circuiting during the start-up	100 ms
● at short-circuit during operation	100 ms
product feature	
● bridging of equipment	No
Efficiency	
efficiency in percent	88 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	25 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
● maximum	2 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
● typical	9.4 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
● maximum	10 A
display version for overload and short circuit	-
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Protective extra low output voltage Vout according to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
● maximum	3.5 mA
● typical	0.4 mA
protection class IP	IP67, enclosure type 5 indoor
Approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; UL-Listed (UL 508) according to NFPA compatibility (National Fire Protection Association), see operating instructions
● CSA approval	No; -
● cCSAus, Class 1, Division 2	No
● ATEX	No
certificate of suitability	
● IECEx	No
● NEC Class 2	No
● ULhazloc approval	No
● FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
● EAC approval	Yes

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certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	No
● DNV GL	No
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
● for emitted interference	EN 55022 Class A
● for mains harmonics limitation	-
● for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
● during operation	-25 ... +55 °C; with natural convection
● during transport	-40 ... +70 °C
● during storage	-40 ... +70 °C
environmental category according to IEC 60721	Climate class 3K3, 5 … 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
● at input	L1, L2, L3, PE: Plug connector HAN Q4/2 (counterpart see "Electrical accessories")
● at output	L+, M: 2 x 1.5 mm² each (4-pole cable for +/- with open, labeled ends, 4 x 1.5 mm²)
● for auxiliary contacts	Alarm signals: M12 plug-in connector 5-pin
width of the enclosure	310 mm
height of the enclosure	135 mm
depth of the enclosure	90 mm
net weight	2.8 kg
product feature of the enclosure housing can be lined up	No
fastening method	Can be mounted onto ET200pro mounting rail
electrical accessories	Power connector (Input: 3RK1911-2BE30 (6 mm²)) (Output: 3RK1911-2BF10 (4 mm²))
MTBF at 40 °C	196 354 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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