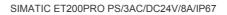
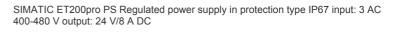
6ES7148-4PC00-0HA0

Data sheet







nput		
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	
• full-scale value	550 V	
supply voltage at AC	320 340 V for max. 1 min	
wide range input	Yes	
overvoltage overload capability	Implemented internally with varistors	
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	50/60 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 ·s	
fuse protection type	T 4 A	
fuse protection type 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	
output voltage adjustable	No; -	
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	
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+ 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	
	50 A	
at short-circuit during operation typical duration of everlanding capability for everyone current.	30 A	
duration of overloading capability for excess current	100	
on short-circuiting during the start-up	100 ms	
at short-circuit during operation	100 ms	
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		
	0.5.0/	
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	1%	
resistive load 50/100/50 % typical		
setting time		
• maximum	2 ms	
protection and monitoring		
design of the overvoltage protection	< 33 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Electronic shutdown, automatic restart	
-	9.4 A	
typical and using a both circuit current DMS value.	9.4 A	
enduring short circuit current RMS value	10 A	
• maximum	1074	
safety		
galvanic isolation between input and output	Yes	
safety		
galvanic isolation between input and output	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN	
galvanic isolation between input and output galvanic isolation	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178 Class I	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178 Class I 3.5 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA IP67	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Protective extra low output voltage Vout according to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA IP67 EN 55022 Class A	
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No	
No	
No	
I convection	
. 95% no condensation	
onnector HAN Q4/2 (counterpart see "Electrical	
ch (4-pole cable for +/- with open, labeled ends, 4 x 1.5	
ıg-in connector 5-pin	
ET200pro mounting rail	
it: 3RK1911-2BE30 (6 mm²)) (Output: 3RK1911-2BF10	
emens.com	
om/tstcloud	
<u>top</u>	
a <u>x</u>	
v.siemens.com	
input voltage and ambient temperature +25 °C (unless	
ducts and solutions with industrial cybersecurity functions is operation of plants, systems, machines and networks against cyber to implement – and continuously maintain – a holistic, ital cybersecurity concept. Siemens' products and element of such a concept. Customers are responsible trized access to their plants, systems, machines and ins, machines and components should only be connected risk or the internet if and to the extent such a connection is nen appropriate security measures (e.g. firewalls and/or of are in place. For additional information on industrial is that may be implemented, please visit bersecurity-industry. Siemens' products and solutions evelopment to make them more secure. Siemens strongly luct updates are applied as soon as they are available duct versions are used. Use of product versions that are and failure to apply the latest updates may increase or cyber threats. To stay informed about product updates, ensigned the com/cert. (V4.7)	
or it it is	

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval EMV Functional Saftey Test Certificates









Type Examination Certificate Special Test Certificate

other Environment

Confirmation

Environmental Confirmations

last modified:

11/25/2024

