6ES7148-4PC00-0HA0

Data sheet



SIMATIC ET200PRO PS STABILIZED POWER SUPPLY DEGREE OF PROTECTION IP67 INPUT: 400-480 V 3 AC OUTPUT: 24 V DC / 8 A

Technical specifications				
Product	SIMATIC ET200pro PS			
Power supply, type	24 V/8 A			
Input				
Input	3-phase AC			

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Input	3-phase AC	
Rated voltage value Vin rated	400 480 V	
Voltage range AC	340 550 V	
Note	320 340 V for max. 1 min	
Wide-range input	Yes	
Overvoltage resistance	Implemented internally with varistors	
Mains buffering at lout rated, min.	15 ms; at Vin = 400 V	
Rated line frequency	50 60 Hz	
Rated line range	45 66 Hz	
Input current at rated input voltage 400 V Rated	0.5 A	
value		
Switch-on current limiting (+25 °C), max.	40 A	
I²t, max.	3.5 A ² ·s	
Built-in incoming fuse	T 4 A	
Protection in the mains power input (IEC 898)	Required: Circuit breaker 3RV2011-1DA10 or 3RV2711-1DD10 (UL 489)	

Output		
Output	Controlled, isolated DC voltage	
Rated voltage Vout DC	24 V	
Total tolerance, static ±	3 %	
Static mains compensation, approx.	0.5 %	

Static load balancing, approx.	0.5 %		
Residual ripple peak-peak, max.	200 mV		
Spikes peak-peak, max. (bandwidth: 20 MHz)	250 mV		
Product function Output voltage adjustable	No		
Output voltage setting	-		
Status display	Green LED for 24 V OK		
Signaling	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)		
On/off behavior	Overshoot of Vout < 2 %		
Startup delay, max.	1.5 s		
Voltage rise, typ.	40 ms		
Rated current value lout rated	8 A		
Current range	0 8 A		
Active power supplied typical	192 W		
Short-term overload current on short-circuiting during the start-up typical	50 A		
Duration of overloading capability for excess current on short-circuiting during the start-up	100 ms		
Short-term overload current at short-circuit during operation typical	50 A		
Duration of overloading capability for excess current at short-circuit during operation	100 ms		
Parallel switching for enhanced performance	No		
Efficiency			
Efficiency at Vout rated, lout rated, approx.	88 %		
Power loss at Vout rated, lout rated, approx.	25 W		
Closed-loop control			
Dynamic mains compensation (Vin rated ±15 %), max.	0.5 %		
Dynamic load smoothing (lout: $50/100/50$ %), Uout \pm typ.	1 %		
Setting time maximum	2 ms		
Protection and monitoring			
Output overvoltage protection	< 33 V		
Current limitation, typ.	9.4 A		
Property of the output Short-circuit proof	Yes		
Short-circuit protection	Electronic shutdown, automatic restart		
Enduring short circuit current RMS value maximum	10 A		
Overload/short-circuit indicator	-		
Safety			
Primary/secondary isolation	Yes		

Galvanic isolation	Protective extra low output voltage Vout according to EN 60950-1 and EN 50178	
Protection class	Class I	
Leakage current maximum	3.5 mA	
Leakage current typical	0.4 mA	
CE mark	Yes	
UL/CSA approval	Yes	
UL/cUL (CSA) approval		
	UL-Listed (UL 508) according to NFPA compatibility (National Fire Protection Association), see operating instructions	
Explosion protection	No	
Certificate of suitability IECEx	No	
Certificate of suitability NEC Class 2	No	
FM approval	-	
CB approval	Yes	
Marine approval	No	
Degree of protection (EN 60529)	IP67, enclosure type 4 indoor	
EMC		
Emitted interference	EN 55022 Class A	
Supply harmonics limitation	•	
Noise immunity	EN 61000-6-2	
Operating data		
Ambient temperature during operation	-25 +55 °C	
• Note	with natural convection	
Ambient temperature during transport	-40 +70 °C	
Ambient temperature during storage	-40 +70 °C	
Humidity class according to EN 60721	Climate class 3K3, no condensation	
Mechanics		
Connection technology	screw-type terminals	
Connections Supply input	L1, L2, L3, PE: Plug connector HAN Q4/2 (counterpart see "Electrical accessories")	
Connections Output	L+, M: 2 x 1.5 mm ² each (4-pole cable for +/- with open, labeled ends, 4 x 1.5 mm ²)	
Connections Auxiliary	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	
Weight, approx.	2.8 kg	
Product property of the enclosure housing for side-	No	
by-side mounting		
Installation	Can be mounted onto ET200pro mounting rail	
Electrical accessories	Power connector (Input: 3RK1911-2BE30 (6 mm²)) (Output: 3RK1911-2BF10 (4 mm²))	

Other	infor	mation
Omer	intor	mation

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)