SIEMENS

Data sheet

6EP1332-4BA00



SIMATIC PM1507/1AC/24VDC/3A

SIMATIC PM 1507 24 V/3 A Stabilized power supply for SIMATIC S7-1500 input: 120/230 V AC, output: 24 V DC/3 A

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
 2 at AC rated value 	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 93/187 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	45 65 Hz
input current	
 at rated input voltage 120 V 	1.4 A
 at rated input voltage 230 V 	0.8 A
current limitation of inrush current at 25 °C maximum	23 A
duration of inrush current limiting at 25 °C	
maximum	3 ms
I2t value maximum	1.3 A ² ·s
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: 10 A characteristic B or 6 A characteristic C
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	1 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	0.1 %
residual ripple	

voltage peak Own • naxonum 150 mV • naxonum 150 mV • reaconum 150 mV • regorder function output voltage adjustable No • display varion for normal operation LED green for 24 V OK; LED red for error; LED yallow for stand-by • behavior of the output voltage No overback of Volt (soft start) • voltage increase inter of the output voltage No • voltage increase inter of the output voltage 0 3 A • syspelid active power typical 2 A • on short-circuling during the start-up typical 12 A • on short-circuling queriton 70 ms product flasture Yes • on short-circuling queriton 2 runnber of parallel-switched aquipment resources for nonexal typical 11 W • or stard output voltage of or rated value of the output voltage of rated value of the output voltage and value of the output voltage of rated value of the output voltage of rated value of the ou	• maximum	50 mV
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Protection and monitoring design of the overvoltage protection Additional control loop, limitation (closed loop control) at < 28.8 V	 load step 90 to 10% typical 	5 ms
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and EN 61131-2 operating resource protection class leakage current • maximum • typical 0.4 mA protection class IP IP20 Approvals certificate of suitability • CE marking • UL approval • CSA approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	galvanic isolation between input and output	Yes
leakage current 3.5 mA • maximum 3.5 mA • typical 0.4 mA protection class IP IP20 Approvals certificate of suitability • CE marking Yes • UL approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 • CSA approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	galvanic isolation	
• maximum3.5 mA• typical0.4 mAprotection class IPIP20Approvalscertificate of suitability • CE marking • UL approval • CSA approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	operating resource protection class	Class I
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protection class IP IP20 Approvals Certificate of suitability • CE marking Yes • UL approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 • CSA approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	• maximum	3.5 mA
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certificate of suitability• CE marking• UL approval• UL approval• CSA approvalYes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	protection class IP	IP20
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CSA approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	-	Yes
CSA approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289	-	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
		Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
	• cCSAus, Class 1, Division 2	No

• ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc
certificate of suitability	
relating to ATEX	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455
• IECEx	Yes; IECEx Ex nA nC IIC T4 Gc
NEC Class 2	No
 ULhazloc approval 	Yes
FM registration	Yes; Class I, Div. 2, Group ABCD, T4
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, BV, DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	0 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-/spring clamp connection
at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
at output	L+, M: 2 spring-loaded terminals each for 0.5 to 2.5 mm ²
product function	
 removable terminal at input 	Yes
 removable terminal at output 	Yes
width of the enclosure	- 50 mm
height of the enclosure	147 mm
depth of the enclosure	129 mm
required spacing	
• top	40 mm
bottom	40 mm
• left	0 mm
• right	0 mm
net weight	0.45 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Can be mounted onto S7-1500 rail
MTBF at 40 °C	1 611 993 h
other information	Specifications at rated input voltage and ambient temperature +25 °C

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