SIEMENS

Data sheet 6ES7288-0CD10-0AA0

SIMATIC PM207/1AC/24VDC/3A

SIMATIC S7-200 smart Regulated power supply input: 100-240 V AC output: 24 V/3 A DC

General information	
Technical Product Detail Page	https://i.siemens.com/1P6ES7288-0CD10-0AA0
product brand name	SIMATIC
product type designation	PM207
product designation	S7-200 smart Power Module
type of current supply	24 V/3 A
input	
type of the power supply network	1-phase AC
phase number	1
voltage curve at input	AC
supply voltage at AC	
● minimum rated value	100 V
● maximum rated value	240 V
● initial value	85 V
● full-scale value	264 V
input voltage at DC	88 ... 370 V
supply voltage	
● at 50 Hz	240 V
● at 60 Hz	120 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
wide range input	Yes
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 = 170 V
input current	
● at rated input voltage 120 V	1.65 A
● at rated input voltage 230 V	0.75 A
current limitation of inrush current at 25 °C maximum	30 A
I2t value maximum	1.5 $A^2 \cdot s$
fuse protection type	internal
fuse protection type in the feeder	Recommended miniature circuit breaker: 10 A characteristic C
output	
voltage curve at output	Controlled, isolated DC voltage
product function output voltage controlled	Yes
product function output voltage stabilized	Yes
output voltage at DC rated value	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	22.8 ... 26.4 V
relative overall tolerance of the voltage	0.5 %
relative control precision of the output voltage	
● on slow fluctuation of input voltage	0.1 %
● on slow fluctuation of ohm loading	0.5 %
voltage peak	
● maximum	50 mV
● typical	25 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 1 %

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response delay maximum	0.5 s
voltage increase time of the output voltage	
● typical	50 ms
output current	
● rated value	3 A
● rated range	0 ... 3 A; +55 ... +70 °C: Derating 3.5%/K
supplied active power typical	72 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	89 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	9 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
● load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	< 28.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
response value current limitation	3.6 ... 4.4 A
● typical	4 A
enduring short circuit current RMS value	
● typical	4 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV
operating resource protection class	Class I
leakage current	
● maximum	3.5 mA
protection class IP	IP20
EMC	
standard	
● for emitted interference	EN 55022 Class B
● for mains harmonics limitation	EN 61000-3-2
● for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
● UKCA marking	No
● EAC approval	No
● Regulatory Compliance Mark (RCM)	No
● CCC approval	Yes
● NEC Class 2	No
type of certification	
● BIS	Yes; R-41184349
● CB-certificate	Yes
MTBF at 40 °C	500 000 h
MTBF at 25 °C	according to MIL-HDBK-217F, 100% full load (24 V, 3 A), input voltage: 220 V AC
standards, specifications, approvals hazardous environments	
certificate of suitability	

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● IECEx	No
● ATEX	No
● ULhazloc approval	No
● FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	No
● Det Norske Veritas (DNV)	No
● Lloyds Register of Shipping (LRS)	No
ambient conditions	
ambient temperature	
● during operation	-25 ... +70 °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
connection method	
type of electrical connection	screw terminal
● at input	L, N, PE: screw terminal for 0.5 ... 6 mm² single-core / 0.5 ... 4 mm² finely stranded
● at output	+1, +2, -1, -2: screw terminal for 0.5 ... 4 mm²
mechanical data	
width × height × depth of the enclosure	45 × 100 × 81 mm
installation width × mounting height	85 mm × 140 mm
required spacing	
● top	20 mm
● bottom	20 mm
● left	20 mm
● right	20 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
● DIN-rail mounting	Yes
● S7 rail mounting	No
● wall mounting	Yes
housing can be lined up	No
net weight	0.46 kg
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

Classifications

	Version	Classification
eClass	16	27-04-07-01
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	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

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General Product Approval

Manufacturer Declaration



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