SIEMENS

Data sheet 6ES7138-7EC00-0AA0



Figure similar

SIMATIC, power supply module 120/230 V AC for ET200iSP, Ex db eb [ib] IIC T4 Gb, Ex db eb [ib] I Mb

General information	
Product type designation	PS 120/230 V AC
Redundancy	
● Redundancy capability	Yes
Supply voltage	
Type of supply voltage	AC
Rated value (AC)	230 V; 120/230 V AC
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
external protection for power supply lines (recommendation)	protection with 6 A miniature circuit breaker and tripping characteristic C (per ET 200iSP station)
Line frequency	
● permissible range, lower limit	47 Hz
● permissible range, upper limit	63 Hz
Mains buffering	
● bridging time for backplane bus, min.	20 ms
● buffering time for powerbus, min.	20 ms
● buffering time for IM 152 CPU, min.	20 ms
Input current	
Inrush current, max.	28 A; at 120/230 V AC
from supply voltage L1, max.	1.04 A; at rated voltage 230 VAC:0.45A at rated voltage 120 VAC:0.75A
At 50 Hz AC, max.	1.04 A
At 60 Hz AC, max.	1.04 A
Power loss	
Power loss, typ.	5 W; 5 W + 1.2 x total power loss of the electronics modules
Power loss, max.	21.3 W
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	No
Diagnoses	
● Diagnostic information readable	Yes; via IM 152
Diagnostics indication LED	
● Group error SF (red)	No
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
● Um (voltage at non-intrinsically safe connecting terminals), max.	264 V; for more AC/DC information, see certificate IECEx KEM 09.0070
Potential separation	

Subject to change without notice
© Copyright Siemens

primary/secondary	Yes
between supply voltage and electronics	No
Degree and class of protection	
IP degree of protection	IP30
Standards, approvals, certificates	
CE mark	CE 0344
UKCA mark	DEKRA 21UKEX0033 Importer UK: Siemens plc Manchester M20 2UR
cULus	LISTED E334384
FM approval	CLASSIFIED 3025852
BIS	Yes
Suitable for safety functions	Yes
INMETRO certificate	UL-BR 12.0066
reference designation according to IEC 81346-2 (2009)	K
Use in hazardous areas	
● ATEX marking	II 2 G Ex db eb [ib] IIC T4 Gb I M2 Ex db eb [ib] I Mb
● ATEX certificate	KEMA 09 ATEX 0156
● IECEx	IECEx KEM 09.0070
● CCC Ex	2020322303002989
● EAC Ex	1Ex d e [ib] IIC T4 Gb PII Ex d e [ib Mb] I Mc
● FM marking	Class I, Zone 1 AEx d e [ib] IIC T4 NI, Class I, DIV.2, GP. A,B,C,D T4 DIP, Class II, III, GP. E,F,G
● Explosion protection category for gas	ATEX gas explosion protection, Zone 1
● Explosion protection category for dust	ATEX dust explosion protection, Zone 21 always install in corresponding enclosure
● associated equipment (Ex ia)	No
● associated equipment (Ex ib)	Yes
Marine approval	
● Germanischer Lloyd (GL)	Yes
● American Bureau of Shipping (ABS)	Yes
● Bureau Veritas (BV)	Yes
● Det Norske Veritas (DNV)	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	-20 °C
● max.	70 °C
Dimensions	
Width	60 mm
Height	190 mm
Depth	136.5 mm
Weights	
Weight, approx.	2 700 g

Classifications

	Version	Classification
eClass	16	27-24-26-11
eClass	14	27-24-26-11
eClass	12	27-24-26-11
eClass	9.1	27-24-26-11
eClass	9	27-24-26-11
eClass	8	27-24-26-11
eClass	7.1	27-24-26-11
eClass	6	27-24-26-11
ETIM	10	EC002583
ETIM	9	EC002583
ETIM	8	EC002583
ETIM	7	EC002583
IDEA	4	3575
UNSPSC	15	32-15-17-06

Subject to change without notice
© Copyright Siemens

Approvals / Certificates

General Product Approval

For use in hazard-ous locations

Miscellaneous

For use in hazardous locations

FM

Miscellaneous

CCC-Ex

For use in hazardous locations

Miscellaneous

Maritime application

Environment

last modified: 3/13/2026

Subject to change without notice
© Copyright Siemens