



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	

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 certificate • IECEx • CCC Ex • EAC Ex • FM marking	KEMA 09 ATEX 0156 IECEx KEM 09.0070 2020322303002989 1Ex d e [ib] IIC T4 Gb PII Ex d e [ib Mb] I Mc																																										
• Explosion protection category for gas • Explosion protection category for dust	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 ATEX gas explosion protection, Zone 1 ATEX dust explosion protection, Zone 21 always install in corresponding enclosure																																										
• associated equipment (Ex ia) • associated equipment (Ex ib)	No Yes																																										
Marine approval																																											
• Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV)	Yes Yes Yes Yes																																										
Ambient conditions																																											
Ambient temperature during operation																																											
• min. • max.	-20 °C 70 °C																																										
Dimensions																																											
Width	60 mm																																										
Height	190 mm																																										
Depth	136.5 mm																																										
Weights																																											
Weight, approx.	2 700 g																																										
Classifications																																											
	<table><tr><th></th><th>Version</th><th>Classification</th></tr><tr><td>eClass</td><td>14</td><td>27-24-26-11</td></tr><tr><td>eClass</td><td>12</td><td>27-24-26-11</td></tr><tr><td>eClass</td><td>9.1</td><td>27-24-26-11</td></tr><tr><td>eClass</td><td>9</td><td>27-24-26-11</td></tr><tr><td>eClass</td><td>8</td><td>27-24-26-11</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-26-11</td></tr><tr><td>eClass</td><td>6</td><td>27-24-26-11</td></tr><tr><td>ETIM</td><td>10</td><td>EC002583</td></tr><tr><td>ETIM</td><td>9</td><td>EC002583</td></tr><tr><td>ETIM</td><td>8</td><td>EC002583</td></tr><tr><td>ETIM</td><td>7</td><td>EC002583</td></tr><tr><td>IDEA</td><td>4</td><td>3575</td></tr><tr><td>UNSPSC</td><td>15</td><td>32-15-17-06</td></tr></table>		Version	Classification	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
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Approvals / Certificates																																											
General Product Approval	For use in hazard-																																										

[Miscellaneous](#)



For use in hazardous locations



[EM](#)



[Miscellaneous](#)



[CCC-Ex](#)

For use in hazardous locations

Maritime application



[Miscellaneous](#)



Environment



last modified:

3/13/2026